U.S. DEPARTMENT OF COMMERCE
National Technical Information Service

PB-256 765

Water Resources Data for Missouri, Water Year 1975

Geological Survey

August 1976

CALENDAR FOR WATER YEAR 1975

1974

OCTOBER

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1975

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AUGUST

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Water Resources Data for Missouri

Water Year 1975

U.S. DEPARTMENT OF THE INTERIOR
MARCH 3, 1849

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT MO-75-1

Prepared in cooperation with the Missouri Department of Natural Resources, Division of Geology and Land Survey; Missouri Department of Highways; and with other State and Federal agencies

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Water resources data for the 1975 water year for Missouri consist of records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs. This report contains discharge records for 138 gaging stations; stage and contents for 6 lakes and reservoirs, and water quality for 53 gaging stations. Also included are data for 103 crest-stage partial-record stations, 30 partial-record water quality stations and 25 miscellaneous sampling sites. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Missouri.

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PREFACE

This report was prepared by the U.S. Geological Survey in cooperation with the State of Missouri and with other agencies, by personnel of the Water Resources Division, Missouri District, under the supervision of Anthony Homyk, District Chief, and A. Clebsch, Jr., Regional Hydrologist, Central Region.

This report is one of a series issued State by State under the general direction of J. S. Cragwall, Jr., Chief Hydrologist, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

UNITED STATES DEPARTMENT OF THE INTERIOR

THOMAS S. KLEPPE, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

Prepared in cooperation with
Missouri Department of Natural Resources,
James L. Wilson, director
Division of Geology and Land Survey,
Dr. Wallace B. Howe, director
Division of Environmental Quality,
Missouri Department of Highways,
Robert N. Hunter, Chief Engineer,
Corps of Engineers, U.S. Army
Environmental Protection Agency
Federal Power Commission

For additional information write to
District Chief, Water Resources Division
U.S. Geological Survey, Mailstop 200, Rolla Center,
1400 Independence Road
Rolla, Missouri 65401

1976

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WATER RESOURCES DATA FOR MISSOURI, 1975

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INTRODUCTION

Water resources data for the 1975 water year for Missouri including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, and records of water-quality data on the chemical and physical characteristics of surface water, are given in this report. In Section 1, records are included for 144 gaging stations of which 138 are streamflow discharge stations, and 6 are reservoir or lake stations; also included are records for 103 crest-stage partial-record stations. Locations of gaging stations are shown in figure 1. In Section 2, water-quality data on chemical, physical, and biological characteristics of surface water were collected from designated sampling sites at predetermined intervals such as once daily, weekly, monthly, or less frequently, and at some sites data were recorded on punched paper tape at 15-, 30-, or 60-minute intervals. Records are given for 84 sampling stations of which 55 are continuous record stations and 29 are partial-record stations. Locations of stations are shown in figure 1. A few pertinent stations in bordering states are also included in this report. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Missouri.

Records of discharge (or stage) of streams, and contents (or stage) of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through water year 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States."

Beginning with the 1961 water year and continuing through water year 1974, streamflow data have been released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1964 water year, have been similarly released either in separate reports or in conjunction with streamflow records. These reports provided rapid release of preliminary water data shortly after the end of the water year. The final data were then released in the water-supply paper series mentioned above. Beginning with the 1975 water year, water data will be released on a State-boundary basis in final form and will not be republished in the water-supply paper series. The 1975 and subsequent water-year reports will be in a series which will carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report MO-75-1." These reports are for sale to the public for a nominal fee from the National Technical information Service, U.S. Department of Commerce, Springfield, Virginia, 22151. For more information on publications available, see "PUBLICATIONS" on a subsequent page.

COOPERATION

The U.S. Geological Survey and organizations of the State of Missouri have had cooperative agreements for the systematic collection of streamflow records since 1921 and for water-quality records since 1964. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Missouri Department of Natural Resources,
James L. Wilson, director
Division of Geology and Land Survey
Dr. Wallace B. Howe, director
Division of Environmental Quality,
Kenneth M. Karch, director
Missouri Department of Highways,
Robert N. Hunter, Chief Engineer

The following Federal agencies assisted in collection of records published in this report by furnishing funds or services:

Corps of Engineers, U.S. Army, in collecting records for 82 gaging stations and one water-quality station.
Environmental Protection Agency, in collecting records for 11 water-quality stations.

Assistance was also furnished by the National Weather Service of the Environmental Science Services Administration of the U.S. Department of Commerce.

The following organizations aided in collecting records:

City of Kansas City; Union Electric Company of Missouri; Little River Drainage District; Missouri Conservation Commission; Missouri Park Board; City of Springfield Utilities; and City of Springfield Sanitation Division.

DEFINITION OF TERMS

Terms related to streamflow, water-quality and other hydrologic data, as used in this report, are defined below. See also table for converting English Units to International System (SI) Units on page 31.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic metres.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

> Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

> Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Bed material is the shifting portion of fragmented material of which the streambed is composed.

Biomass is the amount of living matter present at any given time, expressed as the weight per unit area or volume of habitat.

> Ash weight is the weight or amount of residue present after the residue from the dry weight determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash weight values of zooplankton and phytoplankton are expressed in g/m^3 (grams per cubic metre), and periphyton and benthic organisms in g/m^2 (grams per square metre).

Dry weight refers to the weight of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the weight remains unchanged. This weight represents the total organic matter, ash and sediment, in the sample. Dry weight values are expressed in the same units as ash weight.

Wet weight is the weight of living matter plus contained water.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-ft, or about 646,000 gallons or 2,445 cubic metres. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition (s), temperature, period of contact, and other factors.

Contents is the volume of water in a reservoir, lake, stream or aquifer. Contents herein is that of a reservoir and unless otherwise indicated is computed on the basis of a level pool and does not include bank storage.

Continuing Record Station is a specified site which meets one or all conditions listed:

1. When chemical samples are collected daily or monthly for 10 or more months during the water year.

2. When water-temperature records include observations taken one or more times daily.

3. When sediment-discharge records include those periods for which sediment loads are computed and are considered to be representative of the runoff for the water year.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel an artifical structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/S) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic metres per second.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular given instant of time.

Dissolved refers to the amount of a substance present in true chemical solution. In practice, however, the term includes all forms of the substance that will pass through a 0.45-micrometre membrane filter, and thus may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO^3$).

Micrograms per litre (UG/L, ug/l) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (litre) of water. One thousand micrograms per litre is equivalent to one milligram per litre.

Milligrams per litre (MG/L, mg/l) is a unit for expressing the concentration of chemical consituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1, page 8. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2, p. 8.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multi-celled and are counted according to the number of contained cells per sample volume, usually millilitres (ml) or litres (l).

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square metres (m^2), acres, or hectares. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per liter to milliequivalents per liter

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*...	0.11119	Iodide (I^{-1})......	0.00788
Ammonia as NH_4^{+1}...	.05544	Iron (Fe^{+3})*......	.05372
Barium (Ba^{+2})......	.01456	Lead (Pb^{+2})*......	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*...	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*.	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2})*....	.03406
Chloride (Cl^{-1})....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*...	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3}).	.03159
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1}).....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})*.	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2})*......	.03060

*Constituent reported in micrograms per liter; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in milligrams per liter to parts per million*
(All values calculated to three significant figures)

Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170- -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually millilitres (ml) or litres (l). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimetres (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	0.00024 - 0.004	Sedimentation.
Silt	.004 - .062	Sedimentation.
Sand	.062 - 2.0	Sedimentation or sieve.
Gravel	2.0 - 64.0	Sieve.

The particle-size distribution given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per millilitre (cells/ml) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per millilitre (cells/ml) of sample.

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per litre of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved-solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos per cm at 25°C). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height and the volume of water per unit of time flowing in a channel.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per litre by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Total (as used in tables of chemical analyses) refers to the amount of a substance that is present both in solution and in suspension. Analyses are performed on representative samples of water-suspended sediment mixtures.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

SPECIAL NETWORKS AND PROGRAMS

National stream-quality accounting network is an accounting network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated in the network design.

Areal configuration of the network is based on river-basin accounting units designated by the office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are: (1) to depict areal variability of water-quality conditions nationwide on a year-to-year basis and (2) to detect and assess long-term changes in stream quality.

Radiochemical program is a network of regularly sampled water quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes that are determined in this program are those of uranium in micrograms per litre, radium as radium-226 in picocuries per litre, gross beta radiation as strontium/yttrium-90 in picocuries per litre, and gross alpha radiation as micrograms of uranium equivalent per litre.

A picocurie (PC/L, pCi/l) is one millionth of the amount of radioactivity represented by a microcurie, which is the quantity of radiation represented by one millionth of a gram of radium-226. A picocurie of radium results in 2.22 disintegration per minute.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 06909000, which appears just to the left of the station name includes the 2-digit part number "06" plus the 6-digit downstream order number "909000." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 5 (Upper Mississippi River basin), Part 6 (Missouri River basin), and Part 7 (Lower Mississippi River basin). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

EXPLANATION OF SURFACE WATER RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30- or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging stations gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or minimum contents) and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS:" for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

Skeleton capacity tables are published for all reservoirs for which records of contents are published on a daily basis.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches.

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage height are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subjected to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations and miscellaneous sites are given in three tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

Accuracy of data

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation, or if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that the daily discharges are within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Missouri for the period October 1960 to September 1965 are in Water-Supply Papers 1915, 1918, and 1919.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Missouri are compiled in Water-Supply Papers 1308, 1310, and 1311 through September 1950, and in 1728, 1730, and 1731 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other data available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Given location, drainage area, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations.

Water-quality information is presented for chemical quality, biological, microbiological, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium adsorption ratio, specific conductance, and pH. The biological information includes qualitative and quantitative analyses of plankton, bottom organisms, and particulate inorganic and amorphous matter present. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnished information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment and bed material.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per liter (mg/l) and water temperatures in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/ml (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per liter. Temperatures reported in degrees Celsius may be converted to degrees Fahrenheit by using Table 3, p. 25.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per liter instead of milligrams per liter. (See "Definition of Terms," p. 3 and table for converting English Units to SI Units, p. 31).

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman. The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory. Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar, Lamar, Goerlitz, and Law, and Goerlitz and Brown. The collection and analysis of aquatic, biological and microbiological samples are described by Slack and others.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis.

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

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*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

The daily chemical-quality data in this report generally represent equal-volume composites for 2- to 30-day periods; the composite periods are selected on the basis of specific conductance of the daily samples and fluctuation of water discharge.

For chemical-quality stations equipped with non-continuous-digital monitors, the records consist of daily maximum and minimum values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S. Geological Survey district office at the address given on the back of the title page of this report.

Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for surface-water stations. For daily stations, the water temperatures are taken about the same time each day when sample is collected. Large streams have a small diurnal temperature change while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticles in the cross-section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the sub-divided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the sub-divided day method. For periods when no samples are collected, daily loads of suspended sediment are estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

For the Mississippi River at St. Louis, depth-integrated samples were collected weekly at two or more verticles with the P-61 sampler. Periodically, samples were taken at 10 to 20 verticles in the cross section to define more accurately the average concentration of the cross section. Three times during the year, bed material samples were collected from 15 to 18 verticles.

For some periods, when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, turbidity, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

In addition to the records of the quantities of suspended sediment, records of periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

Publications

The annual series of water-supply papers that contain information on quality of surface waters in Missouri are listed below:

Year	Part 5	Part 6	Part 7	Year	Part 5	Part 6	Part 7
1948	----	----	1133	1959	1643	1643	1644
1949	----	----	1163	1960	1743	1743	1744
1950	----	----	1188	1961	1883	1883	1884
1951	----	----	1199	1962	1943	1943	1944
1952	----	----	1252	1963	1949	1949	1950
1953	----	----	1292	1964	1956	1956	1957
1954	----	----	1352	1965	1963	1963	1964
1955	----	----	1402	1966	1993	1993	1994
1956	----	----	1452	1967	2013	2013	2014
1957	A1521	A1521	1522	1968	2094	2095	2096
1958	1572	1572	1573	1969	2144		

A Includes Missouri records for 1953-57

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Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970 Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.

Carter, R. W., and Davidian, Jacob, 1968, General procedures for gaging streams: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. A6, 13 p.

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Porterfield, George, 1972, Computations of fluvial sediment discharges: U.S. Geol. Survey Techniques of Water Resources Inv., book 3, chap. C3, 66 p.

Ritter, J. R., and Helley, E. J., 1969, Optical method for determining particle sizes of coarse sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C3, 33 p. (open file).

U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, A study of methods used in measurement and analysis of sediment loads in streams. Published by the St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn.

______1941, Methods of analyzing sediment samples: Rept. 4.

______1953, Accuracy of sediment size analyses made by the bottom-withdrawal-tube method: Rept. 10.

______1957, The development and calibration of visual-accumulation tube: Rept. 11.

______1957, Some fundamentals of particle size analysis: Rept. 12.

______1959, Federal Inter-agency sedimentation instruments and reports: Rept. AA.

______1961, The single stage sampler for suspended sediment: Rept. 13.

______1963, Determinations of fluvial sediment discharge: Rept. 14.

Table 4.--Factors for converting English units to International System (SI) units

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
yards (yd)	.9144	metres (m)
miles (mi)	1.609	kilometres (km)
	Area	
acres	4047	square metres (m^2)
square miles (mi^2)	2.590	square kilometres (km^2)
	Volume	
gallons (gal)	3.785	litres (l)
	3.785×10^{-3}	cubic metres (m^3)
million gallons (10^6 gal)	3785	cubic metres (m^3)
cubic feet (ft^3)	.02832	cubic metres (m^3)
cfs-day $[(ft^3/s\text{-day}) \cdot d]$	2447	cubic metres (m^3)
	2.447×10^{-3}	cubic hectometres (hm^3)
acre-feet (acre-ft)	1233	cubic metres (m^3)
	1.233×10^{-3}	cubic hectometres (hm^3)
	1.233×10^{-6}	cubic kilometres (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	.02832	cubic metres per second (m^3/s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	6.309×10^{-5}	cubic metres per second (m^3/s)
million gallons per day (mgd)	.04381	cubic metres per second (m^3/s)
	Mass	
ton (short)	.9072	tonne (t)

SECTION 1. SURFACE WATER RECORDS

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FOX RIVER BASIN

05495000 Fox River at Wayland, Mo.

LOCATION.--Lat 40°23'33", long 91°35'50", in NW¼ sec.31, T.65 N., R.6 W., Clark County, on left bank 90 ft (27 m) downstream from bridge on U.S. Highway 136, 0.8 mi (1.3 km) west of Wayland, and 5.0 mi (8.0 km) downstream from Brush Creek.

DRAINAGE AREA.--400 mi^2 (1,040 km^2), approximately.

PERIOD OF RECORD.--February 1922 to current year.

GAGE.--Water-stage recorder. Datum of gage is 501.52 ft (152.863 m) above mean sea level. Prior to Oct. 1, 1929, nonrecording gage at bridge 2.8 mi (4.5 km) upstream at different datum. Oct. 1, 1929, to June 11, 1936, nonrecording gage, at bridge 90 ft (27 m) upstream at present datum.

AVERAGE DISCHARGE-- 53 years, 232 ft^3/s (4.871 m^3/s), 7.88 in/yr (200 mm/yr), 168,100 acre-ft/yr (207 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 3,390 ft^3/s (96.0 m^3/s) Apr. 24, (gage height, 13.75 ft or 4.191 m); minimum daily, 2.2 ft^3/s (0.062 m^3/s) Aug. 8, 9, 10.
Period of record: Maximum discharge, 26,400 ft^3/s (748 m^3/s) April 22, 1973 (gage height, 21.71 ft or 6.617 m); no flow at times in several years.

REMARKS.--Records poor.

COOPERATION.--Eight discharge measurements furnished by Corps of Engineers.

REVISION (WATER YEARS).--WSP 785: 1934.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	187	20	173	142	220	350	186	265	40	3.4	83
2	9.6	260	25	128	122	190	400	139	180	35	3.2	38
3	8.6	226	20	60	98	150	450	122	101	30	2.8	23
4	8.6	251	30	104	113	120	500	109	60	25	2.6	18
5	6.3	98	53	99	139	105	450	98	45	20	2.6	24
6	12	52	49	70	106	645	400	90	40	17	2.5	17
7	19	35	532	63	67	924	300	108	37	15	2.3	104
8	15	26	616	60	64	582	250	429	35	20	2.2	59
9	13	22	323	58	59	349	200	250	100	17	2.2	27
10	15	25	191	87	64	242	300	211	200	11	2.2	15
11	15	238	130	181	192	261	250	150	150	9.0	2.6	102
12	14	190	123	99	268	234	200	115	80	8.0	2.8	752
13	15	139	111	99	249	334	170	92	50	7.0	5.1	485
14	49	99	91	152	301	1030	160	79	40	7.0	7.3	184
15	69	61	230	92	1270	1740	150	72	30	7.4	4.5	84
16	58	49	436	65	1070	1500	140	63	28	8.0	29	50
17	45	47	221	40	322	909	140	58	26	7.2	47	36
18	38	44	76	35	239	646	500	54	25	6.6	15	37
19	30	42	60	35	180	496	2000	51	24	5.8	8.8	50
20	21	40	50	40	135	400	1000	49	40	5.4	14	29
21	17	35	45	60	130	350	300	57	130	5.2	34	23
22	16	31	40	80	130	300	500	58	90	5.0	18	19
23	13	29	35	100	150	250	1000	70	150	4.8	7.7	17
24	8.2	28	30	128	180	300	3000	55	200	4.8	5.1	15
25	7.7	26	25	414	220	250	1000	64	100	4.8	13	14
26	6.7	25	20	555	250	200	700	321	120	5.4	54	13
27	5.7	24	15	393	300	500	500	384	150	8.6	81	12
28	5.9	23	14	279	250	2500	300	251	130	5.7	41	11
29	6.0	22	21	229	---	1000	260	233	100	4.3	27	12
30	13	21	23	202	---	600	200	393	60	3.6	396	10
31	149	---	36	164	---	300	---	237	---	3.4	275	---
TOTAL	723.3	2397	3691	4344	6810	17627	16070	4648	2786	357.0	1113.9	2363
MEAN	23.3	79.9	119	140	243	569	536	150	92.9	11.5	35.9	78.8
MAX	149	260	616	555	1270	2500	3000	429	265	40	396	752
MIN	5.7	21	14	35	59	105	140	49	24	3.4	2.2	10
CFSM	.06	.20	.30	.35	.61	1.42	1.34	.38	.23	.03	.09	.20
IN.	.07	.22	.34	.40	.63	1.64	1.49	.43	.26	.03	.10	.22
AC-FT	1430	4750	7320	8620	13510	34960	31870	9220	5530	708	2210	4690

CAL YR 1974 TOTAL 112807.1 MEAN 309 MAX 5000 MIN 5.7 CFSM .77 IN 10.49 AC-FT 223800
WTR YR 1975 TOTAL 62930.2 MEAN 172 MAX 3000 MIN 2.2 CFSM .43 IN 5.85 AC-FT 124800

PEAK DISCHARGE (BASE, 4,000 FT^3/S).--No peak above base.

05497000 North Fabius River at Monticello, Mo.

LOCATION.--Lat 40°06'30", long 91°42'51", in SW¼SE¼ sec.6, T.61 N., R.7 W., Lewis County, on right bank upstream from bridge on State Highway 16, 1.0 mi (1.6 km) south of Monticello, and 19.0 mi (30.6 km) upstream from Middle Fabius River.

DRAINAGE AREA.--452 mi^2 (1,171 km^2).

PERIOD OF RECORD.--February 1922 to current year. Monthly discharge only for some periods, published in WSP 1308.

GAGE.--Water-stage recorder. Datum of gage is 540.73 ft (164.815 m) above mean sea level. Prior to Nov. 22, 1930, nonrecording gage at site 400 ft (122 m) downstream at datum 0.03 ft (0.009 m) lower. Nov. 22, 1930, to Nov. 28, 1967, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--53 years, 270 ft^3/s (7.646 m^3/s), 8.11 in/yr (206 mm/yr), 195,600 acre-ft/yr (241 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 5,620 ft^3/s (159 m^3/s) Apr. 24 (gage height, 19.89 ft or 6.062 m); minimum daily, 3.6 ft^3/s (0.10 m^3/s) Aug. 9.
Period of record: Maximum discharge, 20,700 ft^3/s (586 m^3/s) Apr. 22, 1973 (gage height, 33.03 ft or 10.068 m, from graph based on gage readings); no flow at times in many years.
Maximum stage since at least 1874, that of Apr. 22, 1973.

REMARKS.--Records fair.

COOPERATION.--Four discharge measurements furnished by Corps of Engineers.

REVISIONS (WATER YEARS).--WSP 925: 1937-39(M). WSP 1308: 1922(M), 1924-26(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	290	32	420	150	335	283	176	371	34	8.2	66
2	17	328	30	219	130	231	303	141	182	31	7.4	34
3	15	758	30	156	150	154	338	122	122	29	6.7	24
4	14	603	32	109	220	138	452	111	97	27	5.4	22
5	14	216	37	109	190	138	530	101	91	26	4.8	34
6	14	133	138	138	170	261	468	100	63	25	4.4	27
7	18	99	1060	140	150	505	482	184	51	25	5.1	31
8	18	81	890	122	160	1280	295	1870	46	25	4.8	45
9	18	71	630	132	170	704	233	1270	44	24	3.6	53
10	18	95	570	195	150	383	345	378	49	22	3.8	55
11	16	431	560	273	140	264	338	206	121	21	4.4	60
12	15	264	565	130	130	243	221	150	85	19	4.4	58
13	19	199	495	90	120	317	174	116	61	18	6.4	101
14	26	135	303	60	110	293	152	98	50	18	11	123
15	26	109	382	45	110	263	146	90	41	17	12	66
16	39	84	470	40	110	668	144	75	41	17	40	46
17	32	79	255	35	130	1580	136	65	49	17	43	37
18	25	73	123	30	200	1460	1020	58	48	18	26	29
19	21	70	98	28	900	999	3340	53	41	17	20	32
20	19	66	109	25	1000	685	935	47	35	20	18	34
21	16	61	112	25	2000	468	432	52	32	18	19	20
22	14	57	89	35	3700	340	279	61	31	10	11	15
23	14	55	88	100	780	263	915	71	230	12	9.0	12
24	13	53	90	199	562	289	4470	54	234	11	7.8	12
25	13	47	79	291	500	263	2600	49	244	17	18	9.1
26	13	45	94	475	562	165	685	131	146	14	26	5.1
27	12	43	105	465	279	490	394	124	82	12	29	5.1
28	12	40	90	295	289	2050	304	143	84	12	35	5.1
29	12	37	88	285	---	1890	318	152	55	12	22	6.4
30	29	35	93	250	---	760	249	576	39	11	23	8.2
31	137	---	330	200	---	398	---	666	---	9.8	86	---
TOTAL	689	4650	9067	5116	13262	18269	20981	7482	2867	588.8	525.2	1075.8
MEAN	22.2	155	260	165	474	589	699	241	95.6	19.0	16.9	35.8
MAX	137	758	1060	475	3700	2050	4470	1870	371	34	86	123
MIN	12	35	30	25	110	138	136	47	31	9.8	3.6	5.1
CFSM	.05	.34	.58	.37	1.05	1.30	1.55	.53	.21	.04	.04	.08
IN.	.06	.38	.66	.42	1.09	1.50	1.73	.62	.24	.05	.04	.09
AC-FT	1370	9220	16000	10150	26310	36240	41620	14840	5690	1170	1040	2130

CAL YR 1974 TOTAL 173412.4 MEAN 475 MAX 7950 MIN 5.2 CFSM 1.05 IN 14.27 AC-FT 344000
WTR YR 1975 TOTAL 83572.0 MEAN 229 MAX 4470 MIN 3.6 CFSM .51 IN 6.88 AC-FT 165800

PEAK DISCHARGE (BASE, 5,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE
4-24	2300	19.89	5,620

05498000 Middle Fabius River near Monticello, Mo.

LOCATION.--Lat 40°05'37", long 91°44'08", in SE¼ sec.12, T.61 N., R.8 W., Lewis County, on left bank on downstream end of bridge pier on State Highway 16, 2.5 mi (4.0 km) southwest of Monticello, 8 mi (13 km) downstream from Radish Branch, and 17 miles (27.4 km) upstream from mouth.

DRAINAGE AREA.--393 mi² (1,018 km²).

PERIOD OF RECORD.--July 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 540.46 ft (164.732 m) above mean sea level. Prior to Oct. 4, 1967, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--30 years, 250 ft³/s (7.080 m³/s), 8.64 in/yr (219 mm/yr), 181,100 acre-ft/yr (223 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,080 ft³/s (87.2 m³/s) Apr. 26 (gage height, 13.55 ft or 4.130 m); minimum daily, 1.2 ft³/s (0.034 m³/s) Aug. 12.
Period of record: Maximum discharge, 17,700 ft³/s (501 m³/s) Apr. 23, 1973 (gage height, 27.14 ft or 8.272 m); no flow at times in 1953-56.
Flood of June 17, 1945, reached a stage of 23.3 ft (7.10 m), from floodmarks.

REMARKS.--Records good.

COOPERATION.--Seven discharge measurements furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	273	25	425	120	375	274	183	761	42	3.6	7.3
2	20	279	22	438	100	335	342	139	242	39	3.0	5.9
3	13	984	20	288	140	228	378	119	135	29	2.7	13
4	9.7	995	33	135	130	178	450	106	94	21	2.3	15
5	8.2	377	37	110	120	174	482	98	102	17	2.0	20
6	7.8	148	134	124	110	332	475	275	63	15	1.8	32
7	7.6	93	1260	114	100	944	335	620	49	14	1.6	22
8	7.9	69	1150	110	90	1020	252	1530	38	14	1.6	14
9	8.2	57	649	118	100	806	198	1880	34	22	1.4	9.7
10	7.5	124	202	182	110	468	224	563	33	13	1.4	8.3
11	6.8	480	196	192	120	246	300	243	230	8.6	1.3	37
12	6.2	368	152	120	140	272	224	170	154	7.0	1.2	58
13	9.4	200	172	90	110	309	170	129	81	6.6	1.4	38
14	18	127	148	70	80	284	142	107	58	6.8	1.7	16
15	20	90	217	60	60	282	132	94	45	8.6	2.2	11
16	24	71	677	50	60	454	132	85	35	8.2	2.3	8.6
17	21	63	292	40	80	1020	130	73	31	7.7	2.3	7.6
18	17	56	170	35	100	1150	128	65	30	7.4	2.5	12
19	13	52	98	32	150	874	1140	59	30	7.9	2.4	12
20	11	48	92	30	600	557	2250	52	27	8.1	2.8	15
21	9.8	43	83	30	1000	397	1080	57	24	9.1	8.6	14
22	8.1	38	76	35	2100	288	262	55	42	9.9	5.2	9.4
23	7.4	27	70	40	142	233	258	62	132	7.8	4.1	8.4
24	7.0	30	84	100	160	217	2030	93	84	6.9	3.4	7.3
25	6.9	27	83	164	288	288	2790	60	160	6.2	8.9	6.0
26	7.2	26	77	340	256	178	2510	52	183	5.6	11	5.3
27	7.6	25	84	462	316	569	515	54	99	5.5	8.1	4.4
28	7.4	24	76	220	314	1760	314	170	150	4.9	5.9	4.1
29	7.5	21	76	184	---	2290	270	133	195	4.7	6.6	4.2
30	26	28	83	170	---	957	272	417	79	4.5	9.8	3.8
31	144	---	378	150	---	418	---	521	---	5.9	12	---
TOTAL	518.2	5193	6916	4658	7196	17903	18459	8264	3420	373.9	125.1	429.3
MEAN	16.7	173	223	150	257	578	615	267	114	12.1	4.04	14.3
MAX	144	995	1260	462	2100	2290	2790	1880	761	42	12	58
MIN	6.2	21	20	30	60	174	128	52	24	4.5	1.2	3.8
CFSM	.04	.44	.57	.38	.65	1.47	1.56	.68	.29	.03	.01	.04
IN.	.05	.49	.65	.44	.68	1.69	1.75	.78	.32	.04	.01	.04
AC-FT	1030	10300	13720	9240	14270	35510	36610	16390	6780	742	248	852

CAL YR 1974 TOTAL 130239.7 MEAN 379 MAX 4520 MIN 5.5 CFSM .96 IN 13.09 AC-FT 274200
WTR YR 1975 TOTAL 73455.5 MEAN 201 MAX 2790 MIN 1.2 CFSM .51 IN 6.95 AC-FT 145700

PEAK DISCHARGE (BASE, 3,500 FT³/S).--No peak above base.

05500000 South Fabius River near Taylor, Mo.

LOCATION.--Lat 39°53'49", long 91°34'49", in SW¼NW¼ sec.21, T.59 N., R.6 W., Marion County, on right bank at downstream side of highway bridge, 4.5 mi (7.2 km) southwest of Taylor, 5.0 mi (8.0 km) downstream from Grassy Creek, and 5.3 mi (8.5 km) upstream from confluence with North Fabius River.

DRAINAGE AREA.--620 mi² (1,606 km²).

PERIOD OF RECORD.--October 1934 to current year. Monthly discharge only prior to December 1934, published in WSP 1308.

GAGE.--Water-stage recorder. Datum of gage is 482.91 ft (147.191 m) above mean sea level (levels by Corps of Engineers). Prior to May 14, 1936, nonrecording gage at bridge 4.0 mi (6.4 km) downstream at datum 21.94 ft (6.687 m) lower. May 14, 1936, to Dec. 2, 1940, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--41 years, 395 ft³/s (11.19 m³/s), 8.65 in/yr (220 mm/yr), 286,200 acre-ft/yr (353 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,920 ft³/s (196 m³/s) May 8 (gage height, 11.46 ft or 3.493 m); minimum discharge, 3.2 ft³/s (0.091 m³/s) Aug. 12, 13, Sept. 29; minimum gage height, 1.17 ft (0.357 m) Aug. 12, 13.

Period of record: Maximum discharge, 19,700 ft³/s (558 m³/s) June 8, 1947 (gage height, 19.5 ft or 5.94 m), from rating curve extended above 11,000 ft³/s (312 m³/s); no flow at times in several years.

Flood in 1928 reached a stage of 18.49 ft (5.636 m), from floodmark, at present site and datum.

REMARKS.--Records good.

COOPERATION.--Nine discharge measurements furnished by Corps of Engineers.

REVISION (WATER YEARS).--WSP 825: 1936.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	50	23	1710	164	705	526	220	1010	68	6.0	9.3
2	77	198	22	926	145	678	877	182	482	57	5.9	7.9
3	45	567	21	455	158	539	1700	153	234	44	5.7	6.7
4	27	1700	20	263	220	386	1550	133	143	39	5.3	6.0
5	19	1420	40	194	562	360	1190	117	650	33	5.1	6.1
6	16	387	111	198	300	903	861	934	261	28	5.0	6.3
7	14	196	1520	200	200	1440	602	3430	136	25	4.4	7.2
8	12	127	2750	203	250	1920	418	5100	82	25	4.3	6.0
9	11	89	1430	220	400	1370	336	3340	67	26	4.2	7.5
10	10	93	409	314	250	819	294	1930	68	30	4.0	13
11	9.3	281	295	510	200	557	298	560	62	24	3.6	116
12	12	851	225	280	150	575	300	327	82	19	3.6	50
13	16	445	180	230	120	989	255	240	133	18	3.6	30
14	49	228	225	200	100	686	216	202	86	16	6.6	26
15	35	149	230	160	100	523	199	167	78	15	17	19
16	24	106	655	130	110	691	191	143	56	14	22	14
17	14	83	660	100	1420	1330	185	123	48	13	52	11
18	40	68	329	80	1350	1550	424	110	44	12	26	8.2
19	29	61	160	70	1350	1290	480	98	39	12	12	8.5
20	21	54	136	66	1190	909	679	86	34	12	9.8	11
21	16	48	118	62	2030	645	605	83	32	11	7.5	11
22	14	45	108	60	3780	478	305	80	29	11	6.4	8.2
23	12	41	95	58	3540	374	438	74	46	11	5.5	8.9
24	11	39	140	190	1890	834	1970	66	1650	11	4.7	7.5
25	10	40	178	1200	841	367	2360	173	604	9.5	9.9	5.9
26	9.9	35	164	614	638	359	1600	258	290	8.3	17	4.7
27	9.3	30	147	441	587	1800	672	200	150	7.6	12	3.9
28	9.0	27	134	281	606	4410	360	115	122	7.3	13	3.5
29	9.8	25	156	205	---	4300	202	113	101	6.6	19	3.7
30	10	24	194	208	---	2530	252	970	74	6.4	15	3.4
31	14	---	745	191	---	900	---	2680	---	6.0	11	---
TOTAL	755.3	7505	11620	10019	22651	35217	20505	22407	6893	625.7	327.1	430.4
MEAN	24.4	250	375	323	809	1136	684	723	230	20.2	10.6	14.3
MAX	150	1700	2750	1710	3780	4410	2360	5100	1650	68	52	116
MIN	9.0	24	20	58	100	359	185	66	29	6.0	3.6	3.4
CFSM	.04	.40	.60	.52	1.30	1.83	1.10	1.17	.37	.03	.02	.02
IN.	.05	.45	.70	.60	1.36	2.11	1.23	1.34	.41	.04	.02	.03
AC-FT	1500	14890	23050	19870	44930	69850	40670	44440	13670	1240	649	854

CAL YR 1974 TOTAL 185966.3 MEAN 509 MAX 6600 MIN 6.5 CFSM .82 IN 11.16 AC-FT 368900
WTR YR 1975 TOTAL 138955.5 MEAN 381 MAX 5100 MIN 3.4 CFSM .61 IN 8.34 AC-FT 275600

PEAK DISCHARGE (BASE, 4,000 FT³/S)

DATE.	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-22	1115	8.21	4,010	5-8	0530	11.46	6,920
3-28	0115	9.30	4,930				

05501000 North River at Palmyra, Mo.

LOCATION.--Lat 39°49'06", long 91°31'13", in SE¼SW¼ sec.13, T.58 N., R.6 W., Marion County, on right bank 100 ft (30 m) upstream from City Waterworks dam, 1,000 ft (305 m) upstream from upstream bridge on dual U.S. Highways 24 and 61, 0.5 mi (0.8 km) north of Palmyra, and 7.0 mi (11.3 km) upstream from mouth.

DRAINAGE AREA.--373 mi^2 (966 km^2).

PERIOD OF RECORD.--December 1934 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 464.81 ft (141.674 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1945, nonrecording gage at bridge 1,000 ft (305 m) downstream, Oct. 1, 1945, to June 22, 1951, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--40 years, 243 ft^3/s (6.882 m^3/s), 8.85 in/yr (225 mm/yr), 176,100 acre-ft/yr (217 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 16,400 ft^3/s (464 m^3/s) Apr. 24 (gage height, 21.80 ft or 6.645 m); minimum discharge, 0.24 ft^3/s (0.007 m^3/s) Aug. 24; minimum gage height, 9.53 ft (2.905 m) Aug. 11.

Period of record: Maximum discharge, 57,500 ft^3/s (1,630 m^3/s) Apr. 21, 1973 (gage height, 29.70 ft or 9.053 m); no flow on many days in 1936, 1941, 1956.

Maximum stage prior to 1934, about 28.0 ft (8.53 m), from floodmarks, date unknown, at site 1,000 ft (305 m) downstream, present datum.

REMARKS.--Records good.

COOPERATION.--Eight discharge measurements furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	20	25	1010	240	526	317	176	652	80	4.0	3.4
2	13	26	24	436	243	436	667	142	176	60	4.0	2.7
3	9.6	815	23	214	348	311	1300	135	111	50	4.0	2.3
4	8.2	623	20	143	314	248	1030	123	97	45	3.6	2.2
5	7.2	262	22	111	892	273	607	111	604	38	5.7	3.9
6	6.7	120	108	111	320	1000	376	3170	323	33	8.1	3.5
7	6.3	71	2010	111	220	1590	278	8410	170	30	7.6	2.8
8	6.3	53	797	114	130	1390	231	7680	92	64	7.1	2.8
9	5.1	42	343	125	100	667	215	1920	77	255	6.6	2.8
10	3.4	62	168	255	150	407	194	1140	99	55	4.4	2.8
11	3.1	533	126	436	100	310	173	676	73	33	3.2	26
12	9.4	236	97	150	90	429	156	514	53	29	4.0	14
13	40	151	89	90	70	689	142	343	46	26	5.7	33
14	141	98	80	80	60	397	137	205	60	22	7.8	33
15	52	73	94	75	60	351	137	132	147	20	7.4	30
16	24	57	122	60	130	610	132	99	56	19	8.2	23
17	16	49	134	55	1470	806	128	84	152	18	59	19
18	14	43	97	50	955	688	1490	75	73	17	15	19
19	12	40	74	45	705	489	535	66	43	15	10	102
20	11	35	64	40	747	352	236	59	33	14	6.9	45
21	9.0	32	57	40	1760	267	175	71	28	14	2.9	25
22	11	30	55	40	2450	216	145	72	25	10	1.4	18
23	11	29	50	40	1120	177	1710	55	114	10	1.3	14
24	9.6	28	134	120	628	354	11200	70	3020	10	.39	9.5
25	10	25	198	1050	428	185	1410	134	879	8.6	2.9	7.6
26	9.0	24	104	476	413	133	601	684	889	7.6	31	7.1
27	8.8	24	97	275	401	2710	382	261	265	7.1	24	6.3
28	9.3	23	87	170	412	4110	300	208	177	5.7	12	5.5
29	11	23	122	141	---	2580	242	134	186	4.8	11	7.8
30	14	26	220	143	---	892	205	796	108	4.8	8.8	7.2
31	18	---	1170	288	---	454	---	1930	---	4.8	6.0	---
TOTAL	527.0	3673	6811	6494	14956	24047	24851	29682	8828	1010.4	283.99	481.2
MEAN	17.0	122	220	209	534	776	828	957	294	32.6	9.16	16.0
MAX	141	815	2010	1050	2450	4110	11200	8410	3020	255	59	102
MIN	3.1	20	20	40	60	133	128	55	25	4.8	.39	2.2
CFSM	.05	.33	.59	.56	1.43	2.08	2.22	2.57	.79	.09	.02	.04
IN.	.05	.37	.68	.65	1.49	2.40	2.48	2.96	.88	.10	.03	.05
AC-FT	1050	7290	13510	12880	29670	47700	49290	58870	17510	2000	563	954

CAL YR 1974 TOTAL 135299.60 MEAN 371 MAX 13000 MIN 3.1 CFSM .99 IN 13.49 AC-FT 268400
WTR YR 1975 TOTAL 121644.59 MEAN 333 MAX 11200 MIN .39 CFSM .89 IN 12.13 AC-FT 241300

PEAK DISCHARGE (BASE, 5,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-28	0130	18.35	8,990	5-7	0430	19.99	12,000
4-24	0945	21.80	16,400	6-24	0745	17.14	6,910

05502000 Bear Creek at Hannibal, Mo.

LOCATION.--Lat 39°40'43", long 91°24'41", in SE¼NW¼ sec.1, T.56 N., R.5 W., Ralls County, on right bank 25 ft (8 m) upstream from upstream bridge on dual U.S. Highway 61 at Hannibal, and 4.8 mi (7.7 km) upstream from mouth.

DRAINAGE AREA.--31.0 mi² (80.3 km²).

PERIOD OF RECORD.--October 1938 to September 1942, October 1947 to current year in reports of Geological Survey. Monthly discharge only for some periods, published in WSP 1308. October 1936 to November 1938 (gage heights and discharge measurements only) in reports of Missouri Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 508.91 ft (155.116 m) above mean sea level. Prior to Mar. 26, 1948, nonrecording gage, and Mar. 26, 1948, to Sept. 30, 1953, water-stage recorder, present site and at datum 2.00 ft (0.610 m) higher. Oct. 1, 1953, to Oct. 30, 1961, water-stage recorder at present site, Oct. 31, 1961, to Sept. 5, 1972, water-stage recorder 400 ft (122 m) downstream at present datum.

AVERAGE DISCHARGE.--32 years, 18.8 ft³/s (0.532 m³/s), 8.24 in/yr (209 mm/yr), 13,620 acre-ft/yr (16.8 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,950 ft³/s (55.2 m³/s) June 5 (gage height, 9.46 ft or 2.883 m); minimum daily, 0.57 ft³/s (0.016 m³/s) Aug. 10.

Period of record: Maximum discharge, 6,500 ft³/s (184 m³/s) Aug. 3, 1957 (gage height, 14.05 ft or 4.282 m, present datum); no flow at times in several years.

REMARKS.--Records poor. High flow regulated by Bear Creek reservoir, 1.0 mi (1.6 km) upstream, since Aug. 7, 1961.

REVISION.--WSP 1115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	4.0	8.0	81	27	48	48	15	60	9.0	.93	2.1
2	1.4	3.5	7.6	20	38	34	94	13	18	8.0	1.4	2.1
3	1.4	100	6.9	17	31	26	34	14	12	7.0	1.4	1.7
4	1.4	94	6.6	14	31	22	22	13	11	6.0	1.6	1.7
5	1.4	38	6.2	12	69	37	16	13	145	5.5	1.6	2.5
6	1.4	13	50	14	17	100	14	41	98	4.5	1.4	2.1
7	1.4	10	128	15	15	180	13	358	114	4.0	1.4	1.7
8	1.4	8.3	40	15	13	154	13	276	140	4.0	1.2	1.7
9	1.9	8.0	16	13	12	35	13	240	30	4.5	.93	1.7
10	2.1	48	12	28	10	26	12	214	19	5.0	.57	1.7
11	2.5	47	11	23	9.7	24	10	75	15	4.0	1.4	6.6
12	4.8	14	14	15	9.7	33	10	19	13	3.5	1.6	2.6
13	12	11	12	12	9.4	31	11	14	12	3.0	2.1	1.9
14	11	9.4	12	11	8.3	21	15	12	19	2.6	2.3	1.7
15	4.2	9.0	36	9.5	11	19	10	11	133	2.4	1.3	1.9
16	3.5	8.3	13	9.5	29	30	11	10	34	2.2	1.1	1.9
17	1.4	8.3	12	8.3	342	29	11	9.7	71	2.1	22	2.1
18	1.4	8.3	10	8.6	318	23	15	9.0	112	2.0	2.6	5.0
19	1.4	8.0	10	9.5	133	18	9.4	8.0	66	1.8	1.6	36
20	1.6	7.6	10	8.6	44	17	9.0	7.2	12	1.8	1.6	5.8
21	1.6	7.2	10	9.0	123	23	8.6	7.2	11	1.8	.90	3.8
22	1.7	6.9	9.4	9.0	148	13	8.6	5.2	9.7	1.6	1.1	1.4
23	1.7	6.6	9.7	9.0	71	12	425	4.8	11	1.6	1.4	1.2
24	1.9	6.0	23	31	54	11	448	18	16	1.6	1.1	1.1
25	1.9	5.8	14	75	44	11	448	107	33	1.6	4.2	1.1
26	1.9	5.4	12	17	40	76	332	61	87	1.6	11	.90
27	1.9	5.2	11	13	44	166	274	34	17	1.7	3.2	.90
28	1.9	5.0	15	12	40	254	228	14	12	1.9	1.9	.90
29	1.9	5.5	36	15	---	256	81	19	11	1.7	2.5	2.1
30	2.5	7.2	24	20	---	76	18	50	10	1.1	2.8	1.4
31	4.0	---	121	54	---	26	---	75	---	.93	2.3	---
TOTAL	82.1	518.5	706.4	608.0	1741.1	1831	2661.6	1767.1	1351.7	100.03	82.43	99.30
MEAN	2.65	17.3	22.8	19.6	62.2	59.1	88.7	57.0	45.1	3.23	2.66	3.31
MAX	12	100	128	81	342	256	448	358	145	9.0	22	36
MIN	1.4	3.5	6.2	8.3	8.3	11	8.6	4.8	9.7	.93	.57	.90
CFSM	.09	.56	.74	.63	2.01	1.91	2.86	1.84	1.45	.10	.09	.11
IN.	.10	.62	.85	.73	2.09	2.20	3.19	2.12	1.62	.12	.10	.12
AC-FT	163	1030	1400	1210	3450	3630	5280	3510	2680	198	163	197

CAL YR 1974 TOTAL 8587.80 MEAN 23.5 MAX 419 MIN 1.1 CFSM .76 IN 10.31 AC-FT 17030
WTR YR 1975 TOTAL 11549.26 MEAN 31.6 MAX 448 MIN .57 CFSM 1.02 IN 13.86 AC-FT 22910

05502300 Salt River at Hagers Grove, Mo.

LOCATION.--Lat 39°49'40", long 92°14'10", in NE¼SW¼ sec.15, T.58 N., R.12 W., Shelby County, at bridge on State Highway 151, 200 ft (61 m) downstream from old channel carrying Bear and other creeks, 0.25 mi (0.40 km) west of Hagers Grove, 2.5 mi (4.0 km) upstream from Ten Mile Creek, and at mile 143.8 (231.4 km).

DRAINAGE AREA.--365 mi² (945 km²).

PERIOD OF RECORD.--September 1974 to current year. September 1939 to August 1974, gage height and miscellaneous measurements published by Corps of Engineers, St. Louis, Mo.

GAGE.--Water-stage recorder. Datum of gage is 702.30 ft (214.061 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 5,330 ft³/s (151 m³/s) Apr. 24 (gage height, 15.09 ft or 4.599 m); minimum daily, 2.0 ft³/s (0.057 m³/s) Aug. 11.

Period of record: Maximum gage height, 19.7 ft (6.0 m) June 6, 1947 (discharge, 26,900 ft³/s or 762 m³/s).

Flood of June 1928 reached a stage of 19.1 ft (5.82 m), according to information furnished by Corps of Engineers, Rock Island, Ill.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	110	13	698	178	534	173	118	484	63	4.6	11
2	4.6	83	14	280	162	422	657	75	183	36	3.9	12
3	4.6	688	15	140	152	235	585	62	106	25	3.6	9.7
4	3.8	462	17	95	231	162	728	50	84	15	2.9	7.9
5	3.0	181	19	114	412	224	568	42	273	12	2.6	28
6	3.4	83	312	128	280	660	346	34	63	9.8	2.4	29
7	5.5	50	1380	140	200	722	182	1400	32	7.2	2.3	28
8	5.5	36	698	178	130	842	140	3770	19	5.9	2.2	21
9	5.1	27	208	164	110	420	171	1650	62	12	2.1	15
10	5.1	70	244	191	80	231	298	436	180	6.0	2.1	8.9
11	4.2	392	112	150	66	191	175	220	137	5.5	2.0	100
12	4.2	233	147	110	50	224	124	159	76	4.6	4.0	27
13	7.2	130	176	82	52	288	95	146	53	4.5	5.6	10
14	13	66	180	62	55	242	88	106	42	4.4	9.2	7.0
15	7.2	49	1100	54	60	336	91	87	33	4.2	9.5	6.0
16	11	41	568	38	82	722	90	62	27	5.3	12	5.8
17	12	32	210	27	158	950	92	51	28	4.9	13	5.4
18	9.0	29	95	25	380	732	90	44	26	4.8	8.8	5.1
19	6.8	26	94	26	600	500	1030	34	24	4.2	7.1	5.1
20	5.5	23	83	23	900	342	298	30	21	4.8	6.5	5.1
21	4.2	20	68	22	1800	237	153	38	19	5.5	5.5	4.9
22	3.8	18	71	21	3520	181	138	52	18	8.1	4.7	4.7
23	4.2	18	85	20	1080	146	1110	68	77	6.4	4.4	4.3
24	3.8	17	135	42	388	412	4450	40	1260	4.8	4.4	3.4
25	3.4	16	105	140	260	221	1420	38	1260	4.6	31	3.1
26	3.4	14	100	598	310	122	403	432	1120	4.3	20	2.8
27	3.0	13	117	366	316	1030	258	306	1700	4.2	8.9	2.7
28	3.0	12	88	251	404	2520	288	120	471	3.8	7.7	2.7
29	3.4	13	105	255	---	1720	286	590	163	3.6	8.1	2.8
30	3.8	12	258	941	---	539	168	2040	89	3.4	12	3.3
31	18	---	1090	210	---	257	---	1670	---	4.7	10	---
TOTAL	179.8	2964	7907	5591	12416	16364	14695	13970	8130	292.5	223.1	381.7
MEAN	5.80	98.8	255	180	443	528	490	451	271	9.44	7.20	12.7
MAX	18	688	1380	941	3520	2520	4450	3770	1700	63	31	100
MIN	3.0	12	13	20	50	122	88	30	18	3.4	2.0	2.7
CFSM	.02	.27	.70	.49	1.21	1.45	1.34	1.24	.74	.03	.02	.03
IN.	.02	.30	.81	.57	1.27	1.67	1.50	1.42	.83	.03	.02	.04
AC-FT	357	5880	15680	11090	24630	32460	29150	27710	16130	580	443	757

WTR YR 1975 TOTAL 83114.1 MEAN 228 MAX 4450 MIN 2.0 CFSM .62 IN 8.47 AC-FT 164900

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-22	0900	14.10	4,570	4-24	1200	15.09	5,330
3-28	0330	11.38	2,990	5-8	1815	14.30	4,710

05503000 Oak Dale Branch near Emden, Mo.

LOCATION.--Lat 39°45'30", long 91°55'08", in NW¼NW¼ sec.9, T.57 N., R.9 W., Shelby County, on right bank about 25 ft (8 m) upstream from culvert on County Highway T, 4.0 mi (6.4 km) southwest of Emden, and at mile 1.5 (2.4 km).

DRAINAGE AREA.--2.64 mi² (6.84 km²).

PERIOD OF RECORD.--August 1955 to September 1975 (discontinued). Prior to October 1959 published as "Douglas Creek near Emden".

GAGE.--Water-stage recorder. Altitude of gage is 699 ft (213.1 m) from topographic map.

AVERAGE DISCHARGE.--20 years, 2.88 ft³/s (0.082 m³/s), 14.81 in/yr (376 mm/yr), 2,090 acre-ft/yr (2.58 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,050 ft³/s (29.7 m³/s) Apr. 23 (gage height, 8.19 ft or 2.496 m); no flow on many days.
Period of record: Maximum discharge, 1,740 ft³/s (49.3 m³/s) Apr. 20, 1973 (gage height, 10.96 ft or 3.341 m); no flow at times each year.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.11	.02	4.3	2.2	5.9	.23	.02	2.6	1.3	0	0
2	0	.06	.01	.28	6.8	3.4	36	.02	2.3	1.1	0	0
3	.02	41	0	.15	4.1	1.6	24	.02	2.1	.90	0	0
4	.02	.34	0	.10	25	.94	7.2	.02	.96	.94	0	0
5	.02	.08	.01	.07	16	18	1.1	.02	11	.88	0	0
6	.05	.04	30	.12	1.0	45	.21	157	.09	1.3	0	0
7	.05	.02	45	.18	.40	108	.12	35	.05	1.4	0	0
8	.05	.02	1.2	.22	.20	20	.12	97	.03	1.1	0	0
9	.06	.02	.05	.11	.20	4.3	.11	27	9.0	1.0	0	0
10	.06	16	.02	2.5	.20	1.9	.09	12	.13	.94	0	0
11	.08	3.9	.03	.85	.20	1.2	.07	6.6	.05	.68	0	0
12	.78	.11	.06	.11	.20	17	.06	3.1	.03	.42	0	0
13	14	.06	.05	.08	.20	6.4	.06	3.3	.03	.49	0	0
14	1.3	.04	.05	.07	.20	3.4	.07	2.7	.03	.44	0	0
15	.05	.03	.62	.06	2.0	20	.06	3.3	.02	.44	0	0
16	.03	.02	.09	.05	10	29	.06	4.3	.02	.44	.04	0
17	.02	.02	.03	.04	37	16	.06	5.3	.04	.32	.01	0
18	.02	.02	.01	.04	10	7.0	20	5.8	.04	.30	0	.04
19	.03	.02	.01	.10	5.3	2.9	.54	5.8	.04	.30	0	.15
20	.04	.02	.01	.21	35	.93	.07	5.9	.04	.30	0	.01
21	.04	.02	.02	.18	85	.42	.05	6.3	.04	.23	0	0
22	.04	.03	.02	.11	28	.22	.04	6.3	17	.08	0	0
23	.04	.04	2.0	.09	6.6	.21	194	5.9	30	0	0	0
24	.04	.03	4.8	23	4.1	.17	132	5.6	23	0	0	0
25	.04	.03	.19	17	4.8	.08	4.6	6.2	5.1	0	.01	0
26	.04	.04	.08	1.2	3.7	.07	.42	47	3.9	0	0	0
27	.05	.04	.07	.38	3.5	184	.14	13	3.1	0	0	0
28	.06	.04	.37	.23	3.6	85	.09	3.9	2.3	0	0	0
29	.06	.05	3.1	.60	---	21	.06	3.8	1.9	0	0	.03
30	.07	.04	1.3	.95	---	2.2	.04	15	1.4	0	0	.01
31	.11	---	52	4.9	---	.61	---	13	---	0	0	---
TOTAL	17.28	62.29	141.22	58.28	295.50	606.85	421.67	500.20	116.34	15.30	.06	.24
MEAN	.56	2.08	4.56	1.88	10.6	19.6	14.1	16.1	3.88	.49	.002	.008
MAX	14	41	52	23	85	184	194	157	30	1.4	.04	.15
MIN	0	.02	0	.04	.20	.07	.04	.02	.02	0	0	0
CFSM	.21	.79	1.73	.71	4.02	7.42	5.34	6.10	1.47	.19	.0008	.003
IN.	.24	.88	1.99	.82	4.16	8.55	5.94	7.05	1.64	.22	.0008	.003
AC-FT	34	124	280	116	586	1200	836	992	231	30	.1	.5

CAL YR 1974 TOTAL 1904.57 MEAN 5.22 MAX 162 MIN 0 CFSM 1.98 IN 26.83 AC-FT 3780
WTR YR 1975 TOTAL 2235.23 MEAN 6.12 MAX 194 MIN 0 CFSM 2.32 IN 31.48 AC-FT 4430

PEAK DISCHARGE (BASE, 350 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-27	1630	5.06	460	5-8	0145	5.57	551
4-23	2015	8.19	1,050	6-23	2300	4.52	372
5-6	1645	7.84	988				

05504900 South Fork Salt River near Santa Fe, Mo.

LOCATION.--Lat 39°19'55", long 91°48'10", in SW¼NE¼ sec.33, T.53 N., R.8 W., Audrain County, on right bank 25 ft (8 m) downstream from bridge on county road, 100 ft (30 m) downstream from Littleby Creek, 2.8 mi (4.5 km) southeast of Santa Fe, and at mile 102.5 (164.9 km).

DRAINAGE AREA.--295 mi² (764 km²).

PERIOD OF RECORD.--October 1939 to current year. Published as "at Santa Fe" prior to October 1968.

GAGE.--Water-stage recorder. Datum of gage is 639.09 ft (194.795 m) above mean sea level. Prior to Feb. 5, 1940, nonrecording gage, and Feb. 5, 1940, to Sept. 30, 1968, water-stage recorder 6.3 mi (10.1 km) downstream at datum 26.04 ft (7.937 m) lower.

AVERAGE DISCHARGE.--36 years, 194 ft³/s (5.494 m³/s), 8.93 in/yr (227 mm/yr), 140,600 acre-ft/yr (173 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 12,700 ft³/s (360 m³/s) Apr. 24 (gage height, 20.43 ft or 6.227 m); minimum daily, 0.48 ft³/s (0.014 m³/s) Aug. 10.

Period of record: Maximum discharge, 28,800 ft³/s (816 m³/s) Oct. 13, 1969 (gage height, 28.24 ft or 8.608 m); no flow at times in several years.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	11	8.0	448	1450	440	181	100	101	10	2.0	4.7
2	3.2	16	9.4	484	492	368	134	79	41	8.9	1.7	3.7
3	2.8	220	31	182	113	323	129	65	30	7.1	1.3	3.4
4	2.5	477	19	58	44	195	118	55	22	6.1	1.1	3.3
5	2.6	454	19	38	28	620	94	48	31	5.4	.98	3.4
6	1.6	370	70	16	18	2030	75	44	22	5.3	.88	3.2
7	3.0	119	256	16	18	1930	62	45	15	4.9	.72	3.1
8	5.0	49	326	12	19	828	59	747	12	17	.60	3.3
9	7.0	28	98	18	19	164	57	339	14	160	.56	3.0
10	8.8	94	58	81	20	175	56	129	185	22	.48	2.8
11	5.6	385	24	204	21	154	50	72	98	9.3	.68	3.0
12	8.8	286	18	52	21	187	44	52	39	7.0	.91	3.6
13	28	99	18	31	16	287	38	41	26	6.0	1.0	3.2
14	17	50	17	12	22	238	36	34	21	5.5	1.6	3.1
15	9.4	29	207	10	60	218	39	31	226	4.9	2.3	4.2
16	4.5	21	104	9.1	87	384	40	27	73	4.5	3.0	3.8
17	4.8	17	42	9.4	253	388	41	24	1780	4.3	2.6	3.4
18	3.8	13	20	9.8	876	258	248	21	1800	4.2	2.2	3.2
19	3.2	11	14	15	312	165	519	19	294	4.2	1.7	8.8
20	2.8	10	10	10	102	115	163	18	96	4.2	2.3	432
21	2.5	9.5	9.8	11	712	87	79	22	50	4.2	4.4	86
22	2.8	8.6	13	11	1840	69	55	29	32	4.2	3.2	34
23	3.2	8.1	13	12	2120	56	4380	24	27	3.7	2.6	21
24	3.8	7.6	12	14	1430	46	10500	23	35	3.3	2.3	16
25	4.2	7.1	35	141	484	37	5640	37	28	3.1	5.4	12
26	4.4	6.5	34	55	372	31	746	47	44	3.4	127	10
27	5.2	6.5	21	26	376	2790	320	27	67	3.8	207	9.8
28	6.1	6.9	15	24	396	4340	217	25	22	3.3	33	8.0
29	6.9	6.9	32	113	---	2440	160	41	24	2.8	12	8.8
30	7.6	7.6	70	640	---	543	134	161	15	2.6	8.1	9.1
31	9.5	---	253	3040	---	271	---	165	---	2.4	6.4	---
TOTAL	184.8	2834.3	1876.2	5797.3	11721	20177	24414	2591	5262	337.6	440.01	716.9
MEAN	5.96	94.5	60.5	187	419	651	814	83.6	175	10.9	14.2	23.9
MAX	28	477	326	3040	2120	4340	10500	747	1800	160	207	432
MIN	1.6	6.5	8.0	9.1	16	31	36	18	12	2.4	.48	2.8
CFSM	.02	.32	.21	.63	1.42	2.21	2.76	.28	.59	.04	.05	.08
IN.	.02	.36	.24	.73	1.48	2.54	3.08	.33	.66	.04	.06	.09
AC-FT	367	5620	3720	11500	23250	40020	48430	5140	10440	670	873	1420

CAL YR 1974 TOTAL 112798.50 MEAN 309 MAX 18600 MIN 1.1 CFSM 1.05 IN 14.22 AC-FT 223700
WTR YR 1975 TOTAL 76352.11 MEAN 209 MAX 10500 MIN .48 CFSM .71 IN 9.63 AC-FT 151400

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-31	1600	12.15	4,100	4-24	0715	20.43	12,700
3-27	2030	14.40	5,820				

05506500 Middle Fork Salt River at Paris, Mo.

LOCATION.--Lat 39°29'05", long 91°59'50", in NE¼NW¼NW¼ sec.11, T.54 N., R.10 W., Monroe County, on right bank near upstream side of bridge on E. Madison Street in Paris, 600 ft (183 m) downstream from Wabash Railroad bridge, 12.5 mi (20.1 km) upstream from Elk Fork Salt River, and at mile 104.5 (168.1 km) above mouth of Salt River.

DRAINAGE AREA.--356 mi² (922 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 621.88 ft (189.549 m) above mean sea level, 1961 adjustment. Prior to Jan. 22, 1940, nonrecording gage, Jan. 22, 1940, to Sept. 30, 1968, water-stage recorder, 600 ft (183 m) upstream at present datum.

AVERAGE DISCHARGE.--36 years, 243 ft³/s (6.882 m³/s), 9.27 in/yr (235 mm/yr), 176,100 acre-ft/yr (217 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,250 ft³/s (234 m³/s) Apr. 25 (gage height, 17.58 ft or 5.358 m); minimum daily, 0.79 ft³/s (0.022 m³/s) Aug. 12.

Period of record: Maximum discharge, 45,000 ft³/s (1,270 m³/s) Apr. 21, 1973 (gage height, 33.5 ft or 10.21 m, from floodmark); no flow at times in several years.

REMARKS.--Records good. Water diverted from river upstream from gage by City of Paris.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	12	21	1540	672	386	299	189	900	38	1.6	3.6
2	5.9	12	24	990	385	434	347	129	248	20	1.3	3.3
3	6.8	603	25	340	424	359	837	106	118	13	1.7	3.0
4	6.1	1560	21	197	433	245	1080	94	64	10	1.9	2.8
5	5.5	1130	24	138	642	257	708	82	122	8.4	2.0	3.5
6	5.3	336	307	142	541	1110	417	72	199	7.0	2.0	3.3
7	5.1	126	2110	144	222	1580	274	68	237	6.2	2.0	3.2
8	5.5	76	1710	158	182	1430	207	542	88	5.5	1.2	2.7
9	8.9	53	740	172	112	673	184	1570	74	5.1	.95	2.4
10	8.0	124	220	167	100	352	175	766	37	4.7	.87	2.3
11	6.1	839	142	177	85	246	178	211	26	4.2	.80	2.7
12	14	680	138	134	72	202	158	119	39	4.1	.79	2.4
13	113	308	145	87	76	574	135	87	37	3.8	.95	2.2
14	1220	139	158	79	82	432	124	68	25	3.4	2.2	2.2
15	534	83	180	67	87	334	125	58	22	3.0	2.6	2.2
16	142	60	467	46	146	440	125	49	18	3.4	3.2	5.1
17	61	47	413	36	526	544	123	41	17	3.0	4.0	5.1
18	35	39	172	35	747	522	127	36	15	3.1	3.6	5.9
19	24	35	104	38	654	403	202	32	14	3.3	7.8	7.1
20	18	31	74	31	565	303	228	30	12	3.1	6.5	3.6
21	14	28	71	30	995	229	137	38	12	3.0	4.3	2.5
22	11	26	65	29	1780	181	108	31	11	2.8	3.1	2.1
23	9.8	26	60	28	1720	147	1170	31	458	2.4	2.1	4.5
24	9.4	23	101	76	1050	140	5490	32	46	2.4	1.5	4.3
25	9.2	21	419	631	425	128	7730	40	24	2.2	4.8	3.5
26	9.1	19	206	823	353	169	5700	60	182	2.2	12	2.6
27	8.4	18	159	500	334	941	1170	61	462	2.2	38	2.1
28	8.2	17	145	255	334	2190	294	114	440	2.4	22	1.8
29	8.9	16	152	186	---	2190	358	117	468	2.0	10	2.4
30	9.7	19	227	207	---	1640	308	90	129	1.9	6.3	1.9
31	11	---	803	828	---	686	---	190	---	1.8	4.6	---
TOTAL	2338.2	6508	9683	8311	13744	19555	28518	5153	4544	177.6	156.66	96.3
MEAN	75.4	217	312	268	491	631	951	166	151	5.73	5.05	3.21
MAX	1220	1560	2110	1540	1780	2190	7730	1570	900	38	38	7.1
MIN	5.1	12	21	28	72	128	108	30	11	1.8	.79	1.8
CFSM	.21	.61	.88	.75	1.38	1.77	2.67	.47	.42	.02	.01	.009
IN.	.24	.68	1.01	.87	1.44	2.04	2.98	.54	.47	.02	.02	.01
AC-FT	4640	12910	19210	16480	27260	38790	56570	10220	9010	352	311	191

CAL YR 1974 TOTAL 105978.20 MEAN 290 MAX 3240 MIN 3.3 CFSM .81 IN 11.07 AC-FT 210200
WTR YR 1975 TOTAL 98784.76 MEAN 271 MAX 7730 MIN .79 CFSM .76 IN 10.32 AC-FT 195960

PEAK DISCHARGE (BASE, 2,400 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	1315	9.02	2,460	4-25	1800	17.58	8,250
3-29	0415	8.80	2,410				

05506800 Elk Fork Salt River near Madison, Mo.

LOCATION.--Lat 39°26'05", long 92°10'04", in SW¼NE¼SW¼ sec.29, T.54 N., R.11 W., Monroe County, on left bank 25 ft (8 m) downstream from bridge on County Highway AA, 500 ft (152 m) downstream from Allen Creek, 3.5 mi (5.6 km) southeast of Madison, and at mile 29.8 (47.9 km).

DRAINAGE AREA.--200 mi² (518 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 690.16 ft (210.361 m) above mean sea level (Missouri State Highway Commission bench mark).

AVERAGE DISCHARGE.--7 years, 210 ft³/s (5.947 m³/s), 14.26 in/yr (362 mm/yr), 152,100 acre-ft/yr (188 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 17,700 ft³/s (501 m³/s) Apr. 24 (gage height, 27.00 ft or 8.230 m). minimum daily, 0.20 ft³/s (0.008 m³/s) Aug. 9.

Period of record: Maximum discharge, 42,300 ft³/s (1,200 m³/s) Apr. 21, 1973 (gage height, 33.4 ft or 10.18 m, from floodmarks); minimum discharge, 0.21 ft³/s (0.006 m³/s) Sept. 14, Oct. 18, 19, 1971; minimum gage height, 3.35 ft (1.021 m) Oct. 11, 1972.

Flood of July 9, 1967, reached a stage of 31.25 ft (9.525 m), from floodmark (discharge, 31,200 ft³/s or 884 m³/s, revised by contracted-opening method). Flood in 1871 reached nearly the same stage, from information by local resident.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WRD MO 1973: 1970 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	11	16	885	708	358	111	54	79	8.0	.42	2.2
2	1.5	14	17	245	350	403	263	40	32	5.2	.42	2.2
3	1.1	906	15	138	468	251	615	37	24	3.3	.64	1.5
4	.86	1240	12	121	435	151	440	35	24	2.9	1.1	1.1
5	.64	495	11	100	603	313	223	32	390	2.2	1.3	.86
6	.64	278	375	88	293	1090	120	29	167	2.0	1.5	.42
7	.20	105	2450	70	135	1060	76	30	35	2.0	1.1	.20
8	2.4	55	603	72	73	665	61	485	20	2.0	.42	2.2
9	4.7	37	177	63	47	249	58	205	193	1.7	.20	2.0
10	1.7	243	90	81	35	163	52	61	78	1.7	1.3	1.5
11	.64	1030	67	197	34	127	44	38	37	1.5	1.3	1.3
12	2.0	325	159	99	41	153	38	31	21	1.5	1.1	.86
13	130	121	215	49	46	239	34	28	14	1.3	1.1	.86
14	340	64	117	28	37	173	34	23	11	2.4	2.4	2.9
15	217	44	217	24	54	221	38	21	11	2.4	2.2	3.3
16	66	35	251	22	141	423	40	18	6.5	1.7	2.4	2.4
17	32	30	102	21	720	343	39	17	7.0	1.5	4.2	2.0
18	20	26	55	22	705	215	37	15	8.5	1.3	3.3	1.7
19	14	24	40	24	415	138	41	14	18	1.3	2.4	2.9
20	10	22	34	23	423	94	36	14	15	1.1	1.5	22
21	7.5	20	32	23	580	70	29	23	10	1.3	1.5	12
22	5.6	18	30	21	625	57	26	19	8.5	1.5	1.7	7.5
23	4.7	17	30	19	478	47	3880	18	32	1.1	1.5	5.6
24	4.2	16	169	88	308	40	14600	49	31	.86	.86	3.8
25	3.3	14	213	375	328	34	4970	118	18	.96	2.2	2.9
26	2.4	12	103	323	275	30	413	227	320	.64	3.8	2.2
27	2.2	11	70	165	295	999	199	76	159	.64	15	1.5
28	1.3	11	58	97	295	2110	151	30	23	.64	6.5	1.5
29	1.5	11	151	99	---	1090	124	21	20	.64	3.8	2.2
30	1.5	14	320	177	---	340	78	40	13	.64	2.4	2.2
31	2.9	---	580	1880	---	179	---	219	---	.42	2.0	---
TOTAL	886.68	5240	6779	5639	8947	11825	26870	2067	1825.5	56.24	71.56	95.80
MEAN	28.6	175	219	182	320	381	896	66.7	60.9	1.81	2.31	3.19
MAX	340	1240	2450	1880	720	2110	14600	485	390	8.0	15	22
MIN	.20	11	11	19	34	30	26	14	6.5	.42	.20	.20
CFSM	.14	.88	1.10	.91	1.60	1.91	4.48	.33	.30	.009	.01	.02
IN.	.16	.98	1.26	1.05	1.66	2.20	5.00	.38	.34	.01	.01	.02
AC-FT	1760	10410	13450	11180	17750	23450	53300	4100	3620	112	142	190

CAL YR 1974 TOTAL 76998.29 MEAN 211 MAX 6560 MIN .20 CFSM 1.06 IN 14.32 AC-FT 152700
WTR YR 1975 TOTAL 70311.78 MEAN 193 MAX 14600 MIN .20 CFSM .97 IN 13.08 AC-FT 139500

PEAK DISCHARGE (BASE, 2,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-7	0430	12.77	2,680	4-24	1430	27.00	17,700
3-27	1945	13.04	2,820	5-08	*	15.09	3,840

* Unknown

05507500 Salt River near Monroe City, Mo.

LOCATION.--Lat 39°32'25", long 91°40'20", in NE¼NW¼ sec.22, T.55 N., R.7 W., Ralls County, on left bank on downstream side of old bridge pier, 135 ft (41 m) upstream from highway bridge at Joanna, 2,500 ft (762 m) downstream from Indian Creek, 2.0 mi (3.2 km) upstream from Lick Creek, 8.0 mi (12.9 km) south east of Monroe City, and at mile 63.5 (102.2 km).

DRAINAGE AREA.--2,230 mi² (5,780 km²), approximately.

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 520.04 ft (158.508 m) above mean sea level. Prior to Feb. 2, 1940, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--36 years, 1,542 ft³/s (43.67 m³/s), 9.39 in/yr (239 mm/yr), 1,117,000 acre-ft/yr (1.38 km³/yr).

EXTREMES.--Current year: Maximum discharge, 51,700 ft³/s (1,460 m³/s) Apr. 25 (gage height, 31.26 ft or 9.528 m); minimum daily, 10 ft³/s (0.28 m³/s) Aug. 14.

Period of record: Maximum discharge, 102,000 ft³/s (2,890 m³/s) Apr. 22, 1973 (gage height, 39.1 ft or 11.92 m, from floodmark); no flow July 28-31, 1954.

Flood of June 1928 reached a stage of about 36 ft (11.0 m), from information by local residents.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	36	106	8960	9200	3030	1900	1240	4430	501	18	113
2	101	34	114	5510	3760	3530	1560	887	2550	315	19	81
3	70	2480	110	2320	2960	2950	3770	708	973	226	18	62
4	47	8220	140	1220	2700	1900	4730	616	539	184	17	53
5	33	6050	180	852	3780	1530	3640	560	2800	157	16	44
6	26	2930	250	724	4300	7460	2280	539	1960	142	16	42
7	24	1230	7000	693	3500	13200	1520	1880	1150	130	15	38
8	21	637	10300	693	1300	12100	1080	6270	665	129	14	33
9	18	424	5250	732	2000	5870	886	7380	393	407	13	29
10	16	525	1550	1210	1200	2680	772	6230	1140	322	13	25
11	14	3560	852	1750	1300	1640	848	2010	746	157	12	26
12	16	4370	852	1400	1000	1400	793	968	596	138	11	28
13	18	1970	1210	1000	900	2490	646	672	428	122	11	30
14	899	977	1070	550	800	2480	567	553	319	96	10	32
15	2710	574	959	400	750	1780	530	466	639	79	11	80
16	875	406	1680	300	800	2450	518	394	436	70	11	86
17	430	316	2100	250	5280	3880	507	328	2250	67	12	62
18	268	256	1160	210	6490	3710	921	282	3380	61	19	49
19	180	220	637	190	4710	2690	2870	247	1370	51	31	227
20	134	195	442	170	4170	1910	1880	223	380	46	37	260
21	102	170	370	160	6220	1380	1170	230	244	41	47	412
22	82	155	334	150	10900	1050	668	251	196	38	51	215
23	64	146	298	190	13000	825	8570	234	1750	36	48	151
24	55	134	346	350	9240	690	38500	300	1420	33	38	114
25	49	126	1230	2500	3570	870	50200	434	2200	30	36	91
26	40	114	1400	4140	2570	771	41200	791	4550	26	525	68
27	32	110	1200	2740	2450	6900	9920	1250	3540	24	715	60
28	26	98	600	1540	2510	21400	2370	800	3220	22	439	53
29	22	90	716	1010	---	18600	1670	757	2030	20	255	49
30	26	98	1180	1220	---	10300	1580	1530	1090	19	194	49
31	32	---	4150	9740	---	4220	---	4250	---	19	150	---
TOTAL	6502	36651	47786	52874	111360	145686	188066	43280	47384	3708	2822	2662
MEAN	210	1222	1541	1706	3977	4700	6269	1396	1579	120	91.0	88.7
MAX	2710	8220	10300	9740	13000	21400	50200	7380	4550	501	715	412
MIN	14	34	106	150	750	690	507	223	196	19	10	25
CFSM	.09	.55	.69	.77	1.78	2.11	2.81	.63	.71	.05	.04	.04
IN.	.11	.61	.80	.88	1.86	2.43	3.14	.72	.79	.06	.05	.04
AC-FT	12900	72700	94780	104900	220900	289000	373000	85850	93990	7350	5600	5280

CAL YR 1974 TOTAL 826905 MEAN 2265 MAX 42700 MIN 14 CFSM 1.02 IN 13.79 AC-FT 1640000
WTR YR 1975 TOTAL 688781 MEAN 1887 MAX 50200 MIN 10 CFSM .85 IN 11.49 AC-FT 1366000

PEAK DISCHARGE (BASE, 16,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-28	1100	19.51	22,500	4-25	1615	31.26	51,700

05508000 Salt River near New London, Mo.

LOCATION.--Lat 39°36'44", long 91°24'30", in NE¼NW¼ sec.36, T.56 N., R.5 W., Ralls County, on left bank 180 ft (55 m) upstream from upstream bridge on dual U.S. Highway 61, 2.0 mi (3.2 km) north of New London, 8.0 mi (12.9 km) upstream from Spencer Creek and at mile 35.5 (57.1 km).

DRAINAGE AREA.--2,480 mi^2 (6,420 km^2), approximately.

PERIOD OF RECORD.--February 1922 to current year.

GAGE.--Water-stage recorder. Datum of gage is 477.03 ft (145.399 m) above mean sea level. Prior to Apr. 7, 1931, nonrecording gage at present site 0.03 ft (0.009 m) higher. Apr. 7, 1931, to Jan. 17, 1935, nonrecording gage at site 180 ft (55 m) downstream at datum 0.04 ft (0.012 m) lower.

AVERAGE DISCHARGE.--53 years, 1,681 ft^3/s (47.61 m^3/s), 9.20 in/yr (234 mm/yr), 1,218,000 acre-ft/yr (1.50 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 45,900 ft^3/s (1,300 m^3/s) Apr. 25 (gage height, 26.32 ft or 8.022 m); minimum discharge, 21 ft^3/s (0.59 m^3/s) Aug. 11; minimum gage height, 1.93 ft (0.588 m) Oct. 13.
Period of record: Maximum discharge, 107,000 ft^3/s (3,030 m^3/s) Apr. 22, 1973 (gage height, 31.8 ft or 9.69 m, from floodmark); no flow Aug. 3-14, 1934, Aug. 21 to Sept. 1, 1936.
Flood of July 14, 1958, reached a stage of 27.6 ft (8.41 m), present site and datum, based on comparison of June 1928 flood crest at stone marker 1.0 mi (1.6 km) downstream to gage.

REMARKS.--Records fair. Records of chemical analyses are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 197 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	60	145	8110	10800	3390	2400	1600	4690	812	30	105
2	52	60	150	6670	5500	3940	2000	1200	3750	415	30	86
3	112	1210	160	3360	3410	3700	4100	980	1790	256	32	72
4	107	6490	170	1670	3050	2640	5000	777	889	191	30	61
5	83	7330	180	1120	3460	2030	4170	658	3590	158	29	58
6	65	3860	205	920	4300	5840	2860	1870	3280	135	29	53
7	58	1920	4100	840	2460	13000	1970	1460	1650	120	27	50
8	53	1000	10600	820	1540	14200	1410	5300	1070	108	26	48
9	49	649	6160	800	2190	8270	1120	8130	622	118	25	42
10	46	651	2440	900	1500	4120	961	7550	735	360	24	38
11	43	2290	1180	2000	1800	2430	900	3740	1170	220	25	43
12	43	4710	1000	1500	1200	1860	969	1560	700	132	23	43
13	48	2750	1280	1200	1100	2310	842	1010	580	100	23	42
14	84	1420	1310	1000	870	3130	735	742	510	85	26	43
15	2070	861	1230	800	850	2360	683	625	1490	77	32	36
16	1520	611	1390	600	980	2290	655	525	1260	72	32	56
17	720	469	2200	460	5640	3880	634	445	1890	69	67	72
18	442	374	1660	350	7270	4240	1360	385	4580	66	42	67
19	288	310	970	235	5750	3410	3730	335	2540	62	33	61
20	211	265	660	200	4610	2580	2050	295	896	61	48	167
21	163	239	512	220	5930	1900	1750	290	370	58	51	365
22	135	217	444	240	9850	1400	1000	295	248	51	51	310
23	113	201	404	250	13000	1100	5900	300	204	50	54	152
24	97	185	409	400	11100	900	23000	280	2420	50	50	103
25	88	172	576	1830	5150	1100	44000	455	1410	46	200	78
26	81	160	1410	3990	3170	1000	40000	540	4740	43	395	67
27	73	168	930	3420	2920	10000	11000	1370	4280	40	707	59
28	65	141	760	2040	2980	22000	3000	1240	3150	39	640	53
29	61	134	805	1300	---	20000	2000	987	2660	35	305	53
30	59	141	1120	1210	---	12000	1800	1040	1670	33	182	51
31	56	---	2960	6760	---	5600	---	4020	---	33	135	---
TOTAL	7138	39028	47519	55215	122100	166620	171999	50084	58834	4093	3403	2534
MEAN	230	1301	1533	1781	4361	5375	5733	1616	1961	132	110	84.5
MAX	2070	7330	10600	8110	13000	22000	44000	8130	4740	812	707	365
MIN	43	60	145	200	850	900	634	280	204	33	23	36
CFSM	.09	.52	.62	.72	1.76	2.17	2.31	.65	.79	.05	.04	.03
IN.	.11	.59	.71	.83	1.83	2.50	2.58	.75	.88	.06	.05	.04
AC-FT	14160	77410	94250	109500	242200	330500	341200	99340	116700	8120	6750	5030

CAL YR 1974 TOTAL 890659 MEAN 2440 MAX 37100 MIN 43 CFSM .98 IN 13.36 AC-FT 1767000
WTR YR 1975 TOTAL 728567 MEAN 1996 MAX 44000 MIN 23 CFSM .80 IN 10.93 AC-FT 1445000

PEAK DISCHARGE (BASE, 16,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-23	2330	16.96	16,600	4-25	*	26.32	45,900
3-28	*	20.26	23,800				

*Unknown

05587500 Mississippi River at Alton, Ill.

LOCATION.--Lat 38°53'06", long 90°10'51", in NE¼ sec.14, T.5 N., R.10 W., Madison County, near left bank in downstream end of intermediate lock wall of lock and dam 26 at Alton, 300 ft (91 m) downstream from Missouri & Illinois Bridge & Belt Railroad bridge, 7.7 mi (12.4 m) upstream from Missouri River, and at mile 202.7 (326.1 km) upstream from Ohio River.

DRAINAGE AREA.--171,500 mi² (444,200 km²), approximately.

PERIOD OF RECORD.--Discharge: October 1927 to current year. Monthly discharge only for some periods, published in WSP 1308. Gage heights: At Grafton since 1879 and at Alton since January 1904 in reports of Mississippi River Commission, December 1890 to September 1893 and January 1917 to December 1939 in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Mar. 20, 1933, nonrecording gage at Grafton 15.3 mi (24.6 km) upstream, at datum 403.79 ft (123.075 m) higher. Mar. 20, 1933, to Jan. 4, 1937, and Nov. 11, 1937, to Jan. 31, 1938, nonrecording gage 300 ft (91 m) upstream at datum 395.48 ft (120.542 m) higher. Since July 11, 1940, auxiliary water-stage recorder 5.9 mi (9.5 km) downstream; previously various combinations of gages were used.

AVERAGE DISCHARGE.--48 years, 98,820 ft³/s (2,799 m³/s), 71,600,000 acre-ft/yr (88.3 km³/yr).

EXTREMES.--Current year: Maximum discharge, 343,000 ft³/s (9,710 m³/s) Mar. 31; maximum elevation, 420.15 ft (128.062 m) Apr. 27; minimum discharge, 23,400 ft³/s (663 m³/s) Aug. 10; minimum elevation, 398.60 ft (121.493 m) Oct. 6.

Period of record: Maximum discharge, 535,000 ft³/s (15,200 m³/s) Apr. 29, 1973, includes undetermined amount of overflow from Missouri River; maximum elevation, 432.15 ft (131.719 m) Apr. 28, 1973; minimum discharge, 7,960 ft³/s (225 m³/s) Nov. 7, 1948, result of temporary storage in pool of lock and dam 26; minimum elevation, 390.50 ft (119.024 m) Jan. 27, 1954.

Flood in June 1844 reached a stage of 432.10 ft (131.704 m), present datum.

REMARKS.--Records excellent. Records of chemical analyses are published in Section 2 of this report. Natural flow of stream affected by many reservoirs and navigation dams in upper Mississippi River basin. Floodwater from Missouri River overtops or breaches the levees at extreme high stages. Overflow from Missouri River occurred during various floods as shown in the following table:

Period	Runoff for period		Maximum		
			Date	Discharge	
	acre-ft	hm³		ft³/s	m³/s
May 21 to June 4, 1943	1,075,000	1,330	May 24, 1943	90,000	2,550
Apr. 29 to May 13, 1944	891,000	1,100	Apr. 30, 1944	90,000	2,550
June 29 to July 19, 1947	687,000	847	July 2, 1947	65,000	1,840
July 531, 1951	2,534 000	3,120	July 20, 1951	110,000	3,120
Apr. 3-7, 23-2[illegible] 1973	Unknown	--	Unknown	Unknown	--

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44300	47800	59400	80500	116000	116000	301000	237000	175000	194000	60900	95300
2	46500	51000	54100	81800	116000	117000	284000	232000	163000	189000	53600	98600
3	44900	65500	54400	77600	99000	112000	267000	237000	158000	183000	37000	83900
4	41700	86700	46200	68100	92200	110000	250000	242000	151000	179000	44000	74300
5	38300	96500	43800	59700	91000	104000	233000	249000	154000	176000	34500	80300
6	31700	95900	35900	60300	88400	107000	219000	257000	163000	187000	47500	74100
7	33500	86900	44000	58500	81100	119000	201000	255000	152000	179000	53800	79600
8	40000	80200	70600	65700	79500	132000	187000	282000	148000	177000	52100	68500
9	46000	74300	77000	55200	65700	135000	176000	298000	145000	177000	53200	64500
10	38600	72700	68500	84400	67700	131000	172000	317000	142000	174000	33800	56600
11	39900	76100	67200	86400	71400	117000	172000	328000	136000	164000	33300	53000
12	44400	76500	64200	79800	73300	113000	171000	333000	134000	154000	42200	49800
13	42400	75000	58100	76800	71800	108000	170000	334000	129000	147000	40700	63400
14	45600	75800	56600	73700	74000	105000	169000	331000	130000	147000	43700	59700
15	43400	80400	66300	70200	74600	96800	171000	324000	135000	144000	51200	55900
16	49100	77700	66800	72900	72300	97400	174000	317000	133000	139000	54300	58000
17	52700	75100	73100	74300	85000	99900	173000	310000	132000	135000	39200	58800
18	45900	71000	77500	80600	106000	128000	177000	301000	148000	127000	47800	58500
19	45400	60900	79000	85300	105000	152000	187000	292000	155000	120000	43600	74000
20	37700	60900	72600	75200	102000	161000	202000	283000	153000	118000	38700	79700
21	37200	62400	66100	79200	103000	161000	206000	275000	159000	109000	40300	68500
22	35900	64900	65600	78900	120000	164000	204000	266000	159000	97200	42600	62000
23	32200	67700	70100	78600	162000	177000	202000	257000	166000	92000	48900	60200
24	29800	70100	64600	81400	156000	188000	250000	246000	175000	95200	40200	57200
25	36400	65600	60200	88700	133000	195000	272000	233000	188000	88800	49400	55300
26	34200	60300	56200	91500	120000	210000	259000	221000	191000	82200	87700	48200
27	37200	68000	59300	96100	113000	231000	273000	216000	197000	74000	79600	45200
28	33800	63600	58500	99900	119000	255000	278000	212000	206000	68700	76200	49100
29	35200	60500	70000	94300	---	289000	273000	202000	199000	52300	82400	51300
30	38700	62900	70600	89900	---	305000	250000	182000	197000	59900	95400	50400
31	36000	---	70700	112000	---	311000	---	176000	---	60200	102000	---
TOTAL	1238600	2132900	1947200	2457500	2758000	4847100	6523000	8255000	4773000	4089500	1649850	1933900
MEAN	39950	71100	62810	79270	98500	156400	217400	266300	159100	131900	53220	64460
MAX	52700	96500	79000	112000	162000	311000	301000	334000	206000	194000	102000	98600
MIN	29800	47800	35900	55200	65700	96800	169000	176000	129000	52300	33300	45200
AC-FT	2457000	4231000	3862000	4874000	5470000	9614000	12940000	16370000	9467000	8112000	3272000	3836000

CAL YR 1974 TOTAL 53139800 MEAN 145600 MAX 392000 MIN 29800 AC-FT 105400000
WTR YR 1975 TOTAL 42605500 MEAN 116700 MAX 334000 MIN 29800 AC-FT 84510000

TARKIO RIVER BASIN

06813000 Tarkio River at Fairfax, Mo.

LOCATION.--Lat 40°20'20", long 95°24'11", in SW¼SW¼ sec.22, T.64 N., R.40 W., Atchison County, in left bank on downstream side of bridge pier, 0.5 mi (0.8 km) west of Fairfax, and 2 mi (3.2 km) downstream from unnamed creek, and at mile 13.3 (21.4 km).

DRAINAGE AREA.--508 mi² (1,315 km²).

PERIOD OF RECORD.--March 1922 to current year.

GAGE.--Water-stage recorder. Datum of gage is 867.66 ft (264.463 m) above mean sea level. Prior to Oct. 1, 1931, nonrecording gage at site 50 ft (15 m) downstream at datum 2.0 ft (0.61 m) higher. Oct. 1, 1931, to Oct. 22, 1953, nonrecording gage at site 50 ft (15 m) downstream at same datum.

AVERAGE DISCHARGE.--53 years, 185 ft³/s (5.24 m³/s), 4.94 in/yr (125 mm/yr), 134,300 acre-ft/yr (166 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,070 ft³/s (172 m³/s) June 18 (gage height, 17.30 ft or 5.273 m); minimum observed, 6.0 ft³/s (0.170 m³/s) Aug. 24 (gage height, 4.76 ft or 1.451 m).
Period of record: Maximum discharge, 16,300 ft³/s (461.6 m³/s) June 20, 1942, from rating curve extended above 11,000 ft³/s (311.5 m³/s); maximum gage height, 23.28 ft (7.096 m) Oct. 11, 1973; no flow on several days in July and August 1934.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 856: 1937.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	201	58	33	50	400	187	93	100	122	20	21
2	23	90	44	29	50	300	149	90	82	112	19	19
3	26	63	50	59	50	200	129	90	75	103	18	12
4	25	57	50	68	50	150	191	84	68	96	16	763
5	26	51	49	61	50	150	191	82	62	73	15	217
6	25	48	46	49	50	150	173	139	56	80	13	84
7	24	44	53	48	50	150	155	269	50	72	10	48
8	26	42	56	46	50	150	141	108	48	66	10	24
9	27	53	58	49	50	150	151	93	51	63	9.5	17
10	28	90	57	59	50	150	153	86	56	59	9.5	19
11	27	79	53	50	50	150	145	91	309	58	10	331
12	30	61	38	50	50	150	127	93	191	62	11	132
13	38	52	44	50	50	133	125	87	130	57	12	50
14	44	50	39	50	50	124	146	84	101	52	14	30
15	38	47	51	50	50	125	146	79	93	50	16	28
16	35	48	41	50	50	245	129	73	201	35	15	26
17	33	47	53	50	50	1060	119	72	137	29	13	25
18	33	48	44	50	50	1870	125	67	2520	23	12	23
19	32	47	62	50	50	755	140	66	1060	30	11	24
20	30	42	66	50	50	545	127	64	309	32	10	22
21	30	42	63	50	50	320	112	62	245	28	9.5	20
22	31	42	57	50	50	253	108	63	269	43	7.4	18
23	31	42	29	50	50	211	116	70	391	49	6.7	16
24	33	40	36	50	50	185	124	70	1180	36	6.0	14
25	35	38	53	50	50	135	108	64	582	30	10	16
26	38	40	52	50	80	141	104	97	450	27	42	17
27	37	39	53	50	100	235	101	70	207	25	48	19
28	38	40	48	50	300	788	107	70	173	23	26	52
29	37	37	44	50	---	320	127	94	148	22	35	36
30	101	47	53	50	---	223	103	721	133	23	108	27
31	331	---	48	50	---	203	---	162	---	20	52	---
TOTAL	1336	1667	1548	1551	1730	10121	4059	3453	9477	1600	614.6	2150
MEAN	43.1	55.6	49.9	50.0	61.8	326	135	111	316	51.6	19.8	71.7
MAX	331	201	66	68	300	1870	191	721	2520	122	108	763
MIN	23	37	29	29	50	124	101	62	48	20	6.0	12
CFSM	.08	.11	.10	.10	.12	.64	.27	.22	.62	.10	.04	.14
IN.	.10	.12	.11	.11	.13	.74	.30	.25	.69	.12	.05	.16
AC-FT	2650	3310	3070	3080	3430	20070	8050	6850	18800	3170	1220	4260

CAL YR 1974 TOTAL 95046.0 MEAN 260 MAX 4280 MIN 22 CFSM .51 IN 6.96 AC-FT 188500
WTR YR 1975 TOTAL 39306.6 MEAN 108 MAX 2520 MIN 6.0 CFSM .21 IN 2.88 AC-FT 77960

PEAK DISCHARGE (BASE, 4,800 FT³/S)

DATE	TIME	G. H.	DISCHARGE
6-18	1830	17.30	6,070

06813500 Missouri River at Rulo, Nebr.

LOCATION.--Lat 40°03'14", long 95°25'12", in NW¼NW¼ sec.17, T.1 N., R.18 E., Richardson County, on downstream end of middle pier of bridge on U.S. Highway 159 at Rulo, 3.2 mi (5.1 km) upstream from Nemaha River, and at mile 498.0 (801.3 km).

DRAINAGE AREA.--418,900 mi^2 (1,085,000 km^2), approximately.

PERIOD OF RECORD.--October 1949 to current year in reports of Geological Survey. Gage-height record collected at site 80 ft (24 m) upstream January 1886 to December 1899 published in reports of Missouri River Commission; September 1929 to September 1950 in files of Kansas City office of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 837.23 ft (255.19 m) above mean sea level. Prior to Sept. 13, 1950, nonrecording gage at site 80 ft (24 m) upstream at same datum.

AVERAGE DISCHARGE.--26 years, 38,870 ft^3/s (1,101 m^3/s), 28,160,000 acre-ft/yr (34,700 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 86,600 ft^3/s (2,450 m^3/s) Sept. 4 (gage height, 16.69 ft or 5.087 m), minimum daily, 13,000 ft^3/s (368 m^3/s) Jan. 15; minimum gage height, not determined, occurred during period of no gage-height record Jan. 15, 16.

Period of record: Maximum discharge, 358,000 ft^3/s (10,100 m^3/s) Apr. 22, 1952, (gage height, 25.60 ft or 7.803 m); minimum daily, 4,420 ft^3/s (125 m^3/s) Jan. 13, 1957; minimum gage height, 0.65 ft (0.198 m) Jan. 7, 1971 (result of freezeup).

Flood in 1881 reached a stage of 22.9 ft (6.98 m), from floodmark (discharge not determined).

REMARKS.--Records good except those for period of backwater from Nemaha River, Oct. 10-15, and for winter period, which are poor. Flow partly regulated by upstream main-stem reservoirs.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37900	42800	27300	23300	23500	27100	41900	60000	47500	62500	64500	71500
2	37600	41300	24900	23100	23500	26700	42500	54000	45600	62500	65500	70500
3	37400	40700	23500	23300	23700	26300	40200	52600	46000	60000	66500	69000
4	37400	40400	23700	23500	23700	26300	39200	53600	46000	58000	67000	79000
5	38200	40200	23700	23700	23700	26500	41300	51800	44900	56700	66500	76800
6	38600	39900	23700	23700	23500	27300	43200	48300	44200	56700	65000	73500
7	39600	39200	24500	23700	22900	27700	44200	52600	45200	57600	65000	72000
8	39900	38900	24500	23500	22000	27500	46300	50400	46000	58500	65000	70500
9	40400	38900	24700	23300	22500	27700	48300	46700	46000	58500	65000	69000
10	39600	39900	24100	23700	22000	26900	50400	48700	45200	58500	64000	68000
11	39200	39400	23500	23500	20000	26700	53600	47100	48700	58000	64500	70000
12	39600	40200	23300	22000	21000	26900	51800	46300	51300	57600	67000	70000
13	40700	40200	23900	20000	21500	26500	49500	45200	52200	56700	68000	69500
14	41600	39900	24100	17000	21900	26100	49100	44900	52200	55800	69000	70500
15	41900	39600	24900	13000	21900	26300	48700	44600	50800	54900	68000	69500
16	41900	38900	24900	13800	22100	26900	47900	43500	51300	54000	66000	69000
17	39600	38400	24300	19700	21900	30700	48300	43500	51300	53600	65000	69500
18	38900	37600	23700	23500	22300	35000	49100	43500	56900	53100	65000	69000
19	38900	37900	23100	23100	22700	38200	50000	44200	68500	54000	69500	69000
20	38400	37900	22500	22500	22900	44600	50800	44200	68500	55400	70000	69000
21	38200	38400	22700	22500	23100	44600	49500	43200	68000	56700	67000	70000
22	38400	38400	23100	22500	23500	40700	47900	42200	68000	58500	65000	70500
23	38600	38200	23500	22100	23500	38200	47100	42500	68500	59000	65000	69000
24	39400	37900	23500	22300	23500	37400	52600	43200	76200	61000	66500	66500
25	39900	37600	23300	22900	23500	40200	54400	44600	76800	62000	70000	66500
26	39900	37400	23300	23500	23500	41300	51800	46700	77900	64500	73500	67000
27	39400	35600	23300	24100	24300	37900	48300	46700	70500	67000	70000	67000
28	38900	33400	23700	23900	25300	42500	55000	46300	66500	68000	72000	66500
29	39200	30500	24100	23500	---	47500	81800	49100	62000	66500	72500	67000
30	39400	28900	24100	23500	---	46000	69500	54000	62000	65500	79600	68500
31	43500	---	23500	23700	---	43500	---	53600	---	65000	74600	---
TOTAL	1222100	1148500	740900	687400	639400	1037700	1494200	1477800	1704700	1836300	2101700	2093300
MEAN	39420	38280	23900	22170	22840	33470	49810	47670	56820	59240	67800	69780
MAX	43500	42800	27300	24100	25300	47500	81800	60000	77900	68000	79600	79000
MIN	37400	28900	22500	13000	20000	26100	39200	42200	44200	53100	64000	66500
AC-FT	2424000	2278000	1470000	1363000	1268000	2058000	2964000	2931000	3381000	3642000	4169000	4152000

CAL YR 1974 TOTAL 14481800 MEAN 39680 MAX 87800 MIN 21000 AC-FT 28720000
WTR YR 1975 TOTAL 16184000 MEAN 44340 MAX 81800 MIN 13000 AC-FT 32100000

MILL CREEK BASIN

06816000 Mill Creek at Oregon, Mo.

LOCATION.--Lat 39°58'55", long 95°07'37", in NE¼NE¼ sec.35, T.60 N., R.38 W., Holt County, on left bank at downstream side of bridge on U.S. Highway 59, 0.5 mi (0.8 km) upstream from Rock Creek, 1 mi (1.6 km) southeast of Oregon, and 7 mi (11.2 km) upstream from mouth.

DRAINAGE AREA.--4.90 mi² (12.69 km²).

PERIOD OF RECORD.--July 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 921.26 ft (280.800 m) above mean sea level.

AVERAGE DISCHARGE.--25 years, 2.21 ft³/s (0.063 m³/s), 6.12 in/yr (155 mm/yr), 1,601 acre-ft/yr (1.97 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 728 ft³/s (20.6 m³/s) May 29 (gage height, 4.46 ft or 1.359 m); minimum, 0.5 ft³/s (0.014 m³/s) Sept. 2, 3 (gage height, 1.12 ft or 0.341 m).
Period of record: Maximum discharge, 4,700 ft³/s (133 m³/s) May 18, 1974 (gage height, 9.10 ft or 2.774 m); no flow at times most years.

REMARKS.--Records poor.

REVISIONS (WATER YEARS).--WSP 2119: 1960 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.9	1.8	1.9	1.7	3.0	1.9	5.0	8.5	2.4	1.2	.60
2	1.6	2.3	1.8	2.3	1.7	2.4	1.9	5.0	9.5	2.3	1.2	.60
3	1.6	2.4	1.7	2.3	2.0	2.4	2.2	5.0	6.5	2.3	1.2	.60
4	1.7	2.3	1.7	2.1	3.6	2.7	2.3	6.0	7.4	2.3	1.2	17
5	2.1	2.2	1.9	2.3	1.9	2.4	2.3	6.0	6.0	2.2	1.1	2.9
6	2.5	2.1	2.2	2.3	2.2	1.9	2.1	5.8	4.9	2.1	1.1	.90
7	2.4	2.1	2.3	2.3	1.8	1.9	2.1	21	4.5	1.9	.90	.80
8	2.8	2.1	2.1	2.4	1.7	1.9	2.1	37	4.2	1.9	1.9	.70
9	3.1	3.2	1.9	2.5	1.7	1.8	2.3	2.4	4.2	1.8	1.1	.70
10	2.7	2.9	2.1	27	1.7	2.1	1.8	2.5	18	1.7	.80	3.5
11	2.8	2.3	2.1	2.9	1.7	1.8	2.0	3.7	21	1.9	.80	5.0
12	3.2	2.3	1.9	2.7	1.7	1.8	1.7	3.2	7.2	2.2	.80	1.0
13	4.0	2.3	1.8	2.4	1.7	1.7	2.0	2.5	7.2	1.7	5.6	.90
14	2.7	2.2	2.2	2.2	1.6	2.1	2.4	1.9	6.3	1.6	1.2	.90
15	2.3	2.4	2.2	2.0	1.7	4.0	2.0	1.8	5.2	1.6	1.0	.90
16	2.3	2.3	2.3	1.8	1.7	5.8	2.1	1.7	5.2	1.5	.90	.90
17	2.7	2.2	1.9	1.7	1.9	3.1	3.5	1.6	4.7	1.5	.80	.90
18	2.5	2.2	1.7	1.6	1.8	2.7	10	1.5	30	1.4	.80	.90
19	2.3	1.9	1.9	2.3	1.6	2.4	5.4	1.4	6.1	1.5	.80	.90
20	2.2	1.9	1.9	1.9	5.0	2.4	3.0	1.3	4.7	2.1	.80	.90
21	2.3	1.8	1.9	1.6	12	2.4	2.8	1.3	103	1.5	.70	.90
22	2.2	1.9	1.9	1.4	2.6	2.3	2.7	1.3	7.4	2.1	.70	.90
23	2.7	1.8	1.9	1.6	3.8	2.2	75	1.3	4.7	1.6	.70	.90
24	2.5	1.8	1.8	2.8	2.5	1.9	25	1.3	4.9	1.4	.60	.90
25	2.3	1.8	1.5	2.2	2.9	1.9	10	1.9	3.9	1.5	.70	.90
26	2.3	1.7	1.6	1.8	2.6	1.7	7.5	2.2	3.1	1.5	.80	.90
27	2.3	2.5	1.7	1.7	3.0	3.7	6.6	1.7	2.9	1.4	.70	.90
28	2.8	1.8	2.1	1.7	3.0	2.3	6.0	1.5	2.8	1.3	.90	1.9
29	4.3	1.9	2.1	1.9	---	2.1	5.8	11	2.7	1.2	.90	1.2
30	24	1.9	2.1	2.2	---	2.1	5.2	70	2.5	1.2	.70	1.6
31	8.6	---	2.1	2.2	---	2.1	---	8.9	---	1.2	.60	---
TOTAL	105.4	65.2	60.1	90.0	72.8	75.0	201.7	218.7	310.8	53.8	33.20	52.50
MEAN	3.40	2.17	1.94	2.90	2.60	2.42	6.72	7.05	10.4	1.74	1.07	1.75
MAX	24	3.2	2.3	27	12	5.8	75	70	103	2.4	5.6	17
MIN	1.6	1.7	1.5	1.4	1.6	1.7	1.7	1.3	2.5	1.2	.60	.60
CFSM	.69	.44	.40	.59	.53	.49	1.37	1.44	2.12	.36	.22	.36
IN.	.80	.49	.46	.68	.55	.57	1.53	1.66	2.36	.41	.25	.40
AC-FT	209	129	119	179	144	149	400	434	616	107	66	104

CAL YR 1974 TOTAL 2227.00 MEAN 6.10 MAX 407 MIN 1.5 CFSM 1.24 IN 16.90 AC-FT 4420
WTR YR 1975 TOTAL 1339.20 MEAN 3.67 MAX 103 MIN .60 CFSM .75 IN 10.16 AC-FT 2660

PEAK DISCHARGE (BASE, 150 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	1800	3.00	177	6-18	0745	3.22	223
5-7	0600	3.87	458	6-21	1400	4.20	590
5-29	2400	4.46	728	9-4	0915	3.13	199
6-10	2030	3.38	277				

06817500 Nodaway River near Burlington Junction, Mo.

LOCATION.--Lat 40°26'42", long 95°05'19", in SW¼NE¼ sec. 17, T.65 N., R.37 W., Nodaway County, near left bank on downstream end of bridge pier on U.S. Highway 136, 0.5 mi (0.8 km) upstream from Mill Creek, 0.5 mi (0.8 km) downstream from Norfolk and Western Railroad Co. bridge, and 1.5 mi (2.4 km) west of Burlington Junction.

DRAINAGE AREA.--1,240 mi^2 (3,210 km^2), approximately.

PERIOD OF RECORD.--March 1922 to current year.

GAGE.--Water-stage recorder. Datum of gage is 895.17 ft (272.848 m) above mean sea level. Prior to October 1, 1970 at datum 1.00 ft (0.305 m) higher. Prior to June 29, 1939, nonrecording gage. Prior to Oct. 26, 1928, at former bridge at same site and approximately same as previous datum: Oct. 26, 1928, to June 9, 1929, at site 0.5 mi (0.8 km) upstream set to read same as former gage at low water; June 10, 1929 to June 28, 1939, at present site and at previous datum.

AVERAGE DISCHARGE.--53 years, 527 ft^3/s (14.92 m^3/s), 5.77 in/yr (147 mm/yr), 381,800 acre-ft/yr (471 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 10,200 ft^3/s (289 m^3/s) June 23 (gage height, 10.89 ft or 3.319 m); minimum, 42 ft^3/s (1.19 m^3/s) Sept. 27; minimum gage height, 0.51 ft (0.155 m) Aug. 24.

Period of record: Maximum discharge, 46,000 ft^3/s (1,300 m^3/s) Oct. 11, 1973 (gage height, 19.85 ft or 6.050 m); maximum gage height observed, 20.69 ft (6.306 m), present datum, Mar. 5, 1949 (ice jam); minimum discharge, 1.1 ft^3/s (0.031 m^3/s) Aug. 7, 1934.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	637	66	57	100	500	876	558	528	645	87	192
2	64	479	60	60	100	400	703	461	407	668	81	126
3	66	323	57	69	100	300	570	419	303	505	78	102
4	72	262	48	84	100	273	523	384	240	454	81	114
5	78	235	69	108	100	210	660	362	201	420	78	340
6	72	198	100	111	110	219	711	336	177	392	69	277
7	66	168	129	93	110	222	640	457	159	344	57	168
8	72	141	57	93	110	231	540	463	141	336	51	130
9	54	135	100	99	110	207	532	460	156	311	51	96
10	54	165	114	117	110	207	1060	430	160	291	55	72
11	60	138	105	100	110	195	1030	389	2330	308	63	840
12	78	108	126	100	110	171	718	352	2770	270	60	350
13	99	90	126	100	110	162	600	308	2350	252	63	213
14	96	80	129	100	110	162	578	279	1050	250	69	75
15	96	79	135	100	110	147	565	266	731	246	75	87
16	81	72	126	100	110	300	561	228	624	234	69	75
17	75	75	87	100	110	1870	525	219	596	216	72	69
18	72	72	87	100	110	5630	500	213	2570	210	70	75
19	69	70	72	100	110	5440	492	186	4200	195	69	60
20	69	63	105	100	110	5870	482	192	2550	174	69	57
21	72	60	90	100	110	3920	452	195	1320	168	60	60
22	78	60	80	100	110	2230	407	190	1010	177	54	54
23	66	57	70	100	110	1470	400	180	2570	183	51	51
24	72	55	60	100	110	1080	490	150	3500	162	48	54
25	72	54	63	100	110	899	590	120	5980	150	72	51
26	69	48	60	100	110	520	536	141	6720	141	102	45
27	72	54	102	100	150	687	481	144	2970	135	105	42
28	75	48	99	100	200	3900	467	186	1530	123	96	162
29	90	45	96	100	---	3180	865	255	1080	110	192	100
30	156	57	100	100	---	1550	838	479	838	108	829	90
31	644	---	99	100	---	1070	---	651	---	93	393	---
TOTAL	2914	4127	2817	2991	3160	43222	18392	9653	49761	8271	3369	4227
MEAN	94.0	138	90.9	96.5	113	1394	613	311	1659	267	109	141
MAX	644	637	135	117	200	5870	1060	651	6720	668	829	840
MIN	54	45	48	57	100	147	400	120	141	93	48	42
CFSM	.08	.11	.07	.08	.09	1.12	.49	.25	1.34	.22	.09	.11
IN.	.09	.12	.08	.09	.09	1.30	.55	.29	1.49	.25	.10	.13
AC-FT	5780	8190	5590	5930	6270	85730	36480	19150	98700	16410	6680	8380

CAL YR 1974 TOTAL 309138 MEAN 847 MAX 10200 MIN 45 CFSM .68 IN 9.27 AC-FT 613200
WTR YR 1975 TOTAL 152904 MEAN 419 MAX 6720 MIN 42 CFSM .34 IN 4.59 AC-FT 303300

PEAK DISCHARGE (BASE, 8,500 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-23	2100	10.89	10,200	6-25	1230	10.46	9,540

MISSOURI RIVER MAIN STEM

06818000 Missouri River at St..Joseph, Mo.

LOCATION.--Lat 39°45'12", long 94°51'28", in NW¼SW¼ sec.17, T.57 N., R. 35 W., Buchanan County, on left bank at left abutment of St. Joseph & Grand Island Railroad bridge in St. Joseph. River mile, 448.2 (721.2 km).

DRAINAGE AREA.--424,300 mi² (1,099,000 km²), approximately.

PERIOD OF RECORD.--August 1928 to current year. Gage-height records collected in vicinity 1873-99 are contained in reports of Missouri River Commission; since 1900 in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 788.19 ft (240.240 m) above mean sea level. Prior to Oct. 21, 1931, nonrecording gage and Oct. 21, 1931, to Dec. 31, 1933, water-stage recorder at same site at datum 5.50 ft (1.676 m) higher.

AVERAGE DISCHARGE.--47 years, 38,710 ft³/s (1,096 m³/s), 28,050,000 acre-ft/yr (34,590 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 92,400 ft³/s (2,620 m³/s) June 26; maximum gage height, 17.55 ft (5.349 m) Sept. 4; minimum discharge, 16,700 ft³/s (473 m³/s) Jan. 16 (gage height, 4.12 ft or 1.256 m).

Period of record: Maximum discharge, 397,000 ft³/s (11,240 m³/s) Apr. 22, 23, 1952 (gage height, 26.82 ft or 8.175 m); minimum, 2,300 ft³/s (65.1 m³/s) Jan. 9, 1937; minimum gage height, 0.00 ft (0.000 m) Dec. 18, 19, 1940.

Maximum stage known, 27.2 ft (8.29 m), present datum, Apr. 29, 1881 (discharge, about 370,000 ft³/s or 10,500 m³/s, computed by Corps of Engineers).

Flood of June 1844 reached a stage of 24.5 ft or 7.47 m (discharge, about 350,000 ft³/s or 9,910 m³/s, computed by Corps of Engineers).

REMARKS.--Records good except during periods of ice effect, which are poor. Discharge measurements made 3 or more times a month during winter and 4 or more times monthly during rest of year. Flow partly regulated by many upstream reservoirs. Records of chemical analyses are published in Section 2 of this report.

REVISIONS.--WSP 761: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40400	48200	29200	24200	26200	29700	47100	66300	50200	63900	65400	72400
2	40300	46000	27200	24300	25800	29700	47400	58200	49200	62900	65400	70600
3	40000	44500	25700	24400	25500	28400	46200	55400	49000	61400	66600	69800
4	40000	43700	25300	24400	25500	28600	42900	54500	49800	59400	67400	77300
5	40500	43100	25800	24400	26100	29000	43300	53200	48800	57700	66800	82500
6	41400	42600	25700	24800	25800	29500	45200	49900	48100	57300	65400	74900
7	42500	41800	26000	25000	25000	30400	45200	50300	48400	57800	64900	72200
8	43200	41100	26200	25000	23900	30200	46600	53800	49200	58900	65200	71200
9	43900	40700	26000	24700	22700	30300	48200	48600	56300	59000	65300	70000
10	43700	41100	25800	25000	22200	30100	49700	49500	53100	58900	65200	70000
11	42800	40600	25000	24500	23100	29700	52400	49200	64600	59100	65100	73500
12	43000	40100	24500	23000	23900	29700	51800	48700	57900	58900	66300	72200
13	43900	40100	25000	22000	23400	29500	49500	47700	56700	58300	68200	70500
14	44700	39800	25300	20000	23200	29600	48800	47200	57000	57900	68200	71200
15	44600	39600	26000	18600	23200	30000	49100	46700	53900	57600	67400	70200
16	44400	39300	26500	16900	23300	30600	48800	45700	52900	56400	66900	68700
17	42600	39200	26000	18800	23200	31600	48700	44900	53000	55400	65800	68900
18	41400	38500	24900	24100	23100	38200	50800	44500	59500	55300	65900	69300
19	40700	38500	24100	25500	23700	41900	50000	44500	70400	55600	67400	69400
20	40100	38800	23500	24700	24000	45100	50000	44600	73000	57400	70900	69600
21	39500	39000	23300	23900	24500	49800	49700	44000	74500	58100	68500	70300
22	39300	39200	23500	23900	25300	46700	49700	43700	73800	59800	66500	70700
23	39700	39400	23700	23900	24900	44700	49000	44200	72700	61200	65800	69900
24	40400	39400	23700	24200	25000	45000	51900	44800	83400	62200	66400	69000
25	40400	39400	23700	25200	25200	46300	54100	45900	85700	62900	68800	67200
26	40600	39200	23900	26000	25600	48500	53000	47800	90500	64200	73800	67500
27	41100	37700	23700	26800	26400	45800	51300	48100	81300	66700	70800	67600
28	41600	35500	23600	27300	27600	47500	53900	48000	72500	68100	71100	68300
29	42300	33000	23900	27000	---	55600	79800	50600	66200	67400	72300	67400
30	43400	31000	24400	26600	---	51900	80100	59000	63900	65900	73300	69100
31	47900	---	24500	26400	---	49400	---	56600	---	65800	75200	---
TOTAL	1300300	1200100	775600	745500	687300	1163000	1534200	1536100	1874500	1871400	2102200	2120400
MEAN	41950	40000	25020	24050	24550	37520	51140	49550	62480	60370	67810	70680
MAX	47900	48200	29200	27300	27600	55600	80100	66300	90500	68100	75200	82500
MIN	39300	31000	23300	16900	22200	28400	42900	43700	48100	55300	64900	67200
AC-FT	2579000	2380000	1538000	1479000	1363000	2307000	3043000	3047000	3718000	3712000	4170000	4206000

CAL YR 1974 TOTAL 15708600 MEAN 43040 MAX 106000 MIN 23000 AC-FT 31160000
WTR YR 1975 TOTAL 16910600 MEAN 46330 MAX 90500 MIN 16900 AC-FT 33540000

06819500 One Hundred and Two River at Maryville, Mo.

LOCATION.--Lat 40°20'45", long 94°49'56", in SW¼SW¼ sec.15, T.64 N., R.35 W., Nodaway County, on right bank at intake for city waterworks, just upstream from City Waterworks dam, 150 ft (45.7 m) upstream from bridge on U.S. Highway 136, 0.3 mi (0.48 km) downstream from Thill Branch, 1 mi (1.6 km) east of Maryville and at mile 64.0 (103.0 km).

DRAINAGE AREA.--515 mi² (1,334 km²).

PERIOD OF RECORD.--October 1932 to current year. April to June 1934 monthly discharge only, published in WSP 1310. June 1934 to October 1971, published as "near Maryville".

GAGE.--Water-stage recorder. Datum of gage is 964.65 ft (294.025 m) above mean sea level. Nonrecording gage prior to Sept. 15, 1958. Prior to June 20, 1934, at present site and datum. June 20, 1934 to Oct. 31, 1971, at site 3 mi (4.8 km) upstream at datum 5.68 ft (1.731 m) higher.

AVERAGE DISCHARGE.--43 years, 206 ft³/s (5.83 m³/s), 5.59 in/yr (142 mm/yr), 149,200 acre-ft/yr (184 hm³/yr).

EXTREMES.----Current year: Maximum discharge, 10,300 ft³/s (292 m³/s) June 11 (gage height, 14.66 ft or 4.468 m); no flow Sept. 3.

Period of record: Maximum discharge, 28,000 ft³/s (793 m³/s) Oct. 12, 1973 (gage height, 19.25 ft or 5.867 m); no flow at times in August, September 1934, July 25, 26, 1940, Jan 28-30, 1954, and for part of each day July 29, 30, 1960, caused by temporary storage behind dam, built to direct flow into new channel, and Sept. 3, 1974.

Flood of Sept. 16, 1926, reached a stage of 15 ft (4.6 m), present site, from floodmark (discharge, 14,500 ft³/s or 411 m³/s).

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	205	11	14	30	722	217	84	385	180	9.5	31
2	1.4	67	11	10	25	512	139	88	212	120	9.2	11
3	1.8	20	9.5	12	20	311	84	91	165	108	9.1	.41
4	2.9	5.9	20	10	25	188	177	80	156	95	7.9	166
5	1.6	3.5	20	13	30	148	292	71	132	83	7.7	214
6	1.1	5.8	20	13	40	249	297	216	113	71	7.7	182
7	1.4	6.0	25	12	30	397	206	1100	94	59	7.3	77
8	1.6	5.8	25	14	25	379	170	270	81	52	5.1	32
9	1.4	7.1	27	14	20	421	550	120	225	45	3.7	15
10	1.5	11	31	20	20	350	393	50	186	38	4.5	7.3
11	4.0	13	27	30	16	206	237	69	5740	39	4.3	1170
12	2.0	15	21	40	17	139	188	177	3320	33	4.0	559
13	1.9	14	19	50	17	74	161	60	860	29	13	165
14	5.4	14	18	50	17	76	177	71	550	26	9.1	67
15	2.9	13	21	45	17	81	257	50	426	24	11	43
16	2.6	11	25	40	17	469	206	34	465	21	9.9	33
17	1.6	10	18	37	17	2350	167	31	455	19	8.6	22
18	1.5	10	18	33	17	2460	164	31	1560	18	6.6	25
19	2.4	10	19	30	18	961	202	20	3340	17	5.9	24
20	2.1	11	18	30	20	666	210	23	671	17	5.0	20
21	1.2	11	15	33	32	445	142	18	393	16	4.9	16
22	.99	11	14	29	54	528	126	30	450	18	5.4	15
23	1.2	11	14	26	48	480	287	22	393	19	4.2	11
24	.86	7.7	14	25	46	266	544	18	5160	16	3.4	11
25	2.4	7.7	9.0	30	46	139	233	14	1080	14	4.9	16
26	2.6	6.7	10	40	79	109	148	87	1090	13	7.7	15
27	1.4	7.0	15	50	118	473	123	81	496	13	12	9.8
28	2.1	8.0	13	50	249	2320	170	109	374	12	7.5	48
29	3.4	9.0	13	40	---	656	147	225	206	12	9.7	44
30	149	9.5	12	40	---	301	99	2420	96	11	62	34
31	722	---	14	35	---	249	---	1040	---	11	59	---
TOTAL	929.35	546.7	546.5	915	1110	17125	6513	6800	28874	1249	329.8	3083.51
MEAN	30.0	18.2	17.6	29.5	39.6	552	217	219	962	40.3	10.6	103
MAX	722	205	31	50	249	2460	550	2420	5740	180	62	1170
MIN	.86	3.5	9.0	10	16	74	84	14	81	11	3.4	.41
CFSM	.06	.04	.03	.06	.08	1.07	.42	.43	1.87	.08	.02	.20
IN.	.07	.04	.04	.07	.08	1.24	.47	.49	2.09	.09	.02	.22
AC-FT	1840	1080	1080	1810	2200	33970	12920	13490	57270	2480	654	6120

CAL YR 1974 TOTAL 110727.05 MEAN 303 MAX 9850 MIN .86 CFSM .59 IN 8.00 AC-FT 219600
WTR YR 1975 TOTAL 58021.86 MEAN 186 MAX 5740 MIN .41 CFSM .36 IN 4.91 AC-FT 134000

PEAK DISCHARGE (BASE, 7,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-11	1900	14.66	10,300	6-24	1200	13.65	9,260

06820500 Platte River near Agency, Mo.

LOCATION.--Lat 39°41'19", long 94°42'10", in NE¼NW¼ sec. 10, T.56 N., R.34 W., Buchanan County, on left bank 10 ft (0.3 m) downstream from bridge of U.S. Highway 169, 1.5 mi (2.4 km) downstream from Third Fork, 3.5 mi (5.6 km) northeast of Agency, and at mile 66.8 (107.5 km).

DRAINAGE AREA.--1,760 mi² (4,560 km²), approximately.

PERIOD OF RECORD.--May 1924 to August 1930 (published as "at Agency"), May 1932 to current year.

GAGE.--Water-stage recorder. Datum of gage is 807.38 ft (246.089 m) above mean sea level. May 22, 1924, to Aug. 9, 1930, nonrecording gage at site 4 mi (6.4 km) downstream at different datum. May 13, 1932, to Nov. 14, 1965, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--48 years (1924-29, 1932-75), 865 ft³/s (24.5 m³/s), 6.67 in/yr (169 mm/yr), 626,700 acre-ft/yr (773 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 13,000 ft³/s (368 m³/s) June 12 (gage height, 22.76 ft or 6.937 m); minimum observed, 21 ft³/s (0.59 m³/s) Oct. 4 (gage height, 3.70 ft or 1.128 m).
Period of record: Maximum discharge, 53,000 ft³/s (1,500 m³/s) from loop rating, July 20, 1965 (gage height, 35.05 ft or 10.683 m); no flow at times in July and August 1934 and October 1956.

REMARKS.--Records fair above 300 ft³/s (8.50 m³/s) and poor below and during ice effect.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	3530	73	80	271	800	654	407	4720	518	60	118
2	24	1760	63	64	240	1340	577	351	1660	428	52	182
3	23	944	61	84	221	1200	503	330	1010	361	48	154
4	21	450	57	49	308	882	421	300	729	310	44	1140
5	27	346	66	74	500	793	521	275	598	276	43	2920
6	63	261	77	88	500	610	609	255	475	255	39	1710
7	57	214	111	83	500	574	639	354	383	223	44	627
8	50	198	109	83	500	822	571	3220	310	209	42	375
9	55	208	96	90	500	969	540	1370	1320	195	52	212
10	61	220	93	233	500	950	474	872	2390	178	55	139
11	70	194	94	500	450	927	485	521	8720	168	60	345
12	246	204	98	200	400	715	444	468	12700	159	64	3730
13	161	186	109	300	389	516	503	450	12000	151	69	1730
14	134	160	122	300	352	359	427	416	9400	147	74	630
15	114	137	131	250	338	313	410	302	2590	131	112	341
16	111	123	125	200	333	419	431	244	1390	127	78	226
17	109	106	89	200	363	1360	452	210	1300	109	74	167
18	99	106	83	250	500	5250	2240	184	3010	100	67	139
19	91	106	90	231	600	5980	1780	169	6110	93	73	120
20	69	97	102	223	500	3160	660	163	7090	114	68	99
21	74	92	102	214	700	1950	533	146	2710	120	58	91
22	55	96	106	200	1000	1350	440	139	1540	104	53	83
23	74	85	97	216	800	1000	1300	145	1290	101	47	73
24	86	83	88	189	600	1220	3830	182	1410	107	42	65
25	91	75	58	227	400	664	2970	325	6130	99	49	60
26	99	72	68	343	500	476	1100	206	4930	96	49	55
27	111	70	67	309	600	707	673	534	3470	91	64	51
28	104	66	70	278	500	1500	588	661	1810	88	72	62
29	111	66	76	300	---	4850	509	4590	1060	91	81	69
30	158	68	71	327	---	2040	486	10900	663	75	77	83
31	4230	---	85	323	---	990	---	11600	---	66	93	---
TOTAL	6804	10323	2728	6508	13365	44766	25770	40289	102918	5280	1903	15796
MEAN	219	344	88.0	210	477	1444	859	1300	3431	170	61.4	526
MAX	4230	3530	131	500	1000	5980	3830	11600	12700	518	112	3730
MIN	21	66	57	49	221	313	410	139	310	66	39	51
CFSM	.12	.20	.05	.12	.27	.82	.49	.74	1.95	.10	.03	.30
IN.	.14	.22	.06	.14	.28	.95	.54	.85	2.18	.11	.04	.33
AC-FT	13500	20480	5410	12910	26510	88790	51110	79910	204100	10470	3770	31330

CAL YR 1974 TOTAL 472380 MEAN 1294 MAX 29700 MIN 21 CFSM .74 IN 9.98 AC-FT 937000
WTR YR 1975 TOTAL 276448 MEAN 757 MAX 12700 MIN 21 CFSM .43 IN 5.84 AC-FT 548300

PEAK DISCHARGE (BASE, 7,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-31	0630	21.30	12,800	6-20	0845	18.08	7,930
6-12	1000	22.76	13,000	6-25	1730	17.10	7,040

06821000 Jenkins Branch at Gower, Mo.

LOCATION.--Lat 39°37'29", long 94°36'01", in SW¼NW¼ sec.34, T.56 N., R.33 W., Clinton County, on right bank at upstream side of culvert on U.S. Highway 169, 0.8 mi (1.3 km) north of Gower, and 4.4 mi (7.1 km) upstream from mouth.

DRAINAGE AREA.--2.72 mi² (7.04 km²).

PERIOD OF RECORD.--April 1950 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 905 ft (275.8 m) from topographic map.

AVERAGE DISCHARGE.--25 years, 1.65 ft³/s (0.047 m³/s), 8.24 in/yr (209 mm/yr), 1,200 acre-ft/yr (1.48 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 557 ft³/s (15.8 m³/s) May 29 (gage height, 4.77 ft or 1.454 m); minimum, no flow on many days.

Period of record: Maximum discharge, 3,460 ft³/s (98.0 m³/s) July 20, 1965 (gage height, 13.27 ft or 4.045 m), from rating curve extended above 240 ft³/s (6.8 m³/s) on basis of slope-area measurement at gage height, 9.03 ft (2.752 m) and contracted-opening measurement at gage height 13.27 ft (4.045 m); no flow on many days most years.

REMARKS.--Records poor.

REVISIONS (WATER YEARS).--WSP 1440: 1950-51, 1954-55.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	1.4	.30	.20	.40	.60	.90	2.0	2.4	.10		0
2	0	.60	.30	.20	.40	.40	1.0	2.0	2.4	0		0
3	0	3.6	.20	.20	.50	.30	1.0	2.0	2.6	0		0
4	0	.90	.20	.20	1.5	.40	1.8	2.8	1.8	0		0
5	0	.60	.30	.20	.60	.50	1.5	2.8	1.4	0		.60
6	0	.50	.30	.30	.40	.60	1.0	2.6	1.2	0		0
7	0	.50	.30	.30	.40	.50	1.0	20	1.0	0		0
8	0	.50	.10	.30	.30	.60	.90	3.2	.90	0		0
9	0	.50	.10	.40	.30	.40	.90	1.8	1.0	0		0
10	0	.60	.20	5.7	.30	.60	.80	1.7	1.4	0		0
11	0	.50	.20	.90	.30	.40	.90	3.4	2.1	0		.30
12	3.3	.40	.20	.70	.30	.40	.80	1.8	.60	0		0
13	.50	.40	.20	.60	.30	.80	1.0	1.5	.60	0		0
14	.10	.40	.30	.60	.30	.60	1.2	1.4	1.5	0		0
15	.10	.40	.30	.50	.30	.80	1.0	1.4	.40	0		0
16	.10	.40	.20	.40	.40	1.7	1.0	1.2	.50	0		0
17	.10	.40	.10	.40	.50	1.5	1.2	1.2	.40	0		0
18	.10	.40	.20	.50	.50	1.4	9.4	1.0	.60	0		0
19	.10	.40	.20	.60	.40	1.0	2.6	1.0	.40	0		0
20	.10	.40	.20	.40	1.8	.90	1.8	.90	.30	0		0
21	.10	.40	.20	.40	12	.90	1.7	.80	.60	0		0
22	.10	.40	.20	.30	1.0	.70	1.5	.80	.40	0		0
23	.10	.40	.20	.40	1.5	.70	67	.80	.30	0		0
24	0	.30	.10	1.0	.40	.60	28	.80	.30	0		0
25	0	.30	.10	.60	.60	.60	5.2	1.0	.20	0		0
26	0	.30	.10	.40	.50	.60	4.0	1.5	.20	0		0
27	0	.30	.20	.40	.60	1.7	3.8	.50	.20	0		0
28	0	.30	.20	.40	.60	1.4	3.4	3.0	.10	0		0
29	.10	.40	.20	.40	---	.90	2.6	60	.10	0		0
30	16	.40	.10	.50	---	.80	2.2	11	.10	0		0
31	8.6	---	.30	.50	---	.80	---	3.2	---	0		---
TOTAL	29.50	17.30	6.30	18.90	27.40	24.10	151.10	139.20	26.00	.10	0	.90
MEAN	.95	.58	.20	.61	.98	.78	5.04	4.49	.87	.003	0	.030
MAX	16	3.6	.30	5.7	12	1.7	67	60	2.4	.10	0	.60
MIN	0	.30	.10	.20	.30	.30	.80	.60	.10	0	0	0
CFSM	.35	.21	.07	.22	.36	.29	1.85	1.65	.32	.001	0	.01
IN.	.40	.24	.09	.26	.37	.33	2.07	1.90	.36	.001	0	.01
AC-FT	59	34	12	37	54	48	300	276	52	.2	0	1.8

CAL YR 1974 TOTAL 999.70 MEAN 2.74 MAX 250 MIN 0 CFSM 1.01 IN 13.67 AC-FT 1980
WTR YR 1975 TOTAL 440.80 MEAN 1.21 MAX 67 MIN 0 CFSM .44 IN 6.03 AC-FT 874

PEAK DISCHARGE (BASE, 200 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	2230	3.10	230	5-7	2030	3.47	316
4-23	0700	4.48	500	5-29	0645	4.77	557

06821150 Little Platte River at Smithville, Mo.

LOCATION.--Lat 39°23'17", long 94°34'44", in N½SW¼ sec.23, T.53 N., R.33 W., Clay County, on left bank behind city equipment shelter on old bridge abutment, 500 ft (152 m) upstream from town bridge in Smithville, 1,500 ft (457 m) upstream from bridge on U.S. Highway 169, and 0.5 mi (0.8 km) downstream from Wilkerson Creek.

DRAINAGE AREA.--234 mi^2 (606 km^2).

PERIOD OF RECORD.--June 1965 to current year. Occasional measurements 1942, 1943, 1946, 1962-65.

GAGE.--Water-stage recorder. Datum of gage is 778.18 ft (237.189 m) above mean sea level (levels by Corps of Engineers). Prior to Mar. 23, 1966, nonrecording gage at site 1,500 ft (457 m) downstream at same datum.

AVERAGE DISCHARGE.--10 years, 162 ft^3/s (4.59 m^3/s), 9.40 in/yr (239 mm/yr), 117,400 acre-ft/yr (145 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 12,600 ft^3/s (357 m^3/s) Apr. 24 (gage height, 34.12 ft or 10.400 m); minimum measured, 0.38 ft^3/s (0.011 m^3/s) Aug. 14 (gage height observed, 9.90 ft or 3.018 m).

Period of record: Maximum discharge, 76,600 ft^3/s (2,170 m^3/s), slope-area measurement of peak flow, July 20, 1965 (gage height, 44.8 ft or 13.66 m, from floodmark); no flow at times in many years.

Flood of 1947 reached a stage of 37.4 ft (11.40 m).

REMARKS.--Records poor. Construction of dam for Smithville Lake began in June 1974.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	1240	25	70	55	131	69	78	673	3.0	1.0	.50
2	1.8	698	26	44	30	99	88	66	575	3.2	.90	.50
3	1.2	1060	22	38	29	61	102	63	220	3.2	.80	.50
4	1.8	713	20	35	86	51	218	54	102	3.2	.70	.50
5	3.0	634	20	35	179	56	259	50	64	3.0	.70	.50
6	3.2	341	27	54	100	61	207	41	46	3.0	.60	.50
7	3.0	96	59	97	80	66	137	42	38	3.2	.60	.50
8	2.8	79	64	103	60	54	103	50	33	2.8	.60	.50
9	3.2	57	38	77	50	50	102	87	34	2.0	.50	.50
10	3.0	57	30	380	42	47	85	50	183	1.8	.50	500
11	5.0	69	40	500	32	61	69	41	526	3.5	.40	1480
12	258	62	69	261	27	60	60	37	544	4.4	.40	82
13	298	51	58	166	25	51	57	28	183	4.7	.40	23
14	205	40	48	100	25	47	117	26	119	4.3	.50	7.0
15	47	38	82	80	25	55	101	23	100	3.7	.50	3.2
16	14	36	72	50	42	157	75	21	52	2.9	.50	3.0
17	6.4	36	49	30	262	271	60	18	40	2.4	.50	2.8
18	3.5	33	35	20	253	229	52	17	32	2.2	.50	2.8
19	3.0	31	30	25	175	165	122	16	25	2.0	.40	2.8
20	3.0	29	29	25	291	124	98	14	14	3.0	.40	2.8
21	3.2	27	28	20	639	100	39	11	8.0	2.8	.60	2.8
22	3.2	27	28	25	637	80	23	9.7	11	2.5	.70	3.0
23	3.0	27	28	25	574	67	505	9.9	12	2.3	.60	2.5
24	3.0	26	25	23	498	54	6690	12	6.8	2.2	.80	2.0
25	3.0	23	20	61	169	40	1870	15	5.0	2.0	49	1.8
26	3.0	24	18	92	175	35	713	185	4.2	1.8	17	1.6
27	5.5	25	17	48	176	128	502	77	3.8	1.6	2.7	1.5
28	8.0	22	19	26	145	213	441	307	3.2	1.4	2.3	1.5
29	10	20	22	28	---	163	169	1000	3.0	1.3	1.5	1.5
30	114	21	23	28	---	115	109	915	3.0	1.2	.50	2.8
31	1740	---	70	130	---	89	---	767	---	1.1	.50	---
TOTAL	2757.4	5642	1141	2696	4881	2980	13402	4130.6	3663.0	81.7	87.60	2134.90
MEAN	88.9	188	36.8	87.0	174	96.1	447	133	122	2.64	2.83	71.2
MAX	1740	1240	82	500	639	271	6690	1000	673	4.7	49	1480
MIN	1.2	20	17	20	25	35	23	9.7	3.0	1.1	.40	.50
CFSM	.38	.80	.16	.37	.74	.41	1.91	.57	.52	.01	.01	.30
IN.	.44	.90	.18	.43	.78	.47	2.13	.66	.58	.01	.01	.34
AC-FT	5470	11190	2260	5350	9680	5910	26580	8190	7270	162	174	4230

CAL YR 1974 TOTAL 88016.10 MEAN 241 MAX 21100 MIN 1.0 CFSM 1.03 IN 13.99 AC-FT 174600
WTR YR 1975 TOTAL 43597.20 MEAN 119 MAX 6690 MIN .40 CFSM .51 IN 6.93 AC-FT 86480

PEAK DISCHARGE (BASE, 3,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-31	0230	26.32	3,210	4-24	0500	34.12	12,600

06892350 Kansas River at DeSoto, Kans.
(Formerly published as 06892500 Kansas River at Bonner Springs, Kans.)

LOCATION.--Lat 38°59'00", long 94°57'52", in SE¼NE¼NE¼ sec.27, T.12 S., R.22 E., Leavenworth County, on left bank at downstream side of bridge on county road, north edge of DeSoto, 0.4 mi (0.6 km) upstream from Kill Creek and at mile 31.0 (49.9 km).

DRAINAGE AREA.--59,756 mi^2 (154,768 km^2), of which a large area is noncontributing.

PERIOD OF RECORD.--July 1917 to current year. Monthly discharge only for some periods published in WSP 1310. Prior to October 1973, published as "at Bonner Springs".

GAGE.--Water-stage recorder. Datum of gage is 758.87 ft (231.304 m) above mean sea level. July 9, 1917, to Apr. 23, 1934, nonrecording gage; Apr. 24, 1934 to Nov. 26, 1961, water-stage recorder at site 9.7 mi (15.6 km) downstream at datum 11.81 ft (3.006 m) lower; Nov. 26, 1961 to Sept. 30, 1971, water-stage recorder at site 10.2 mi (16.4 km) downstream at datum 17.81 ft (5.428 m) lower; and Oct. 1, 1971 to Sept. 30, 1973, at site 10.2 mi (16.4 km) downstream at datum 22.81 ft (6.592 m) lower.

AVERAGE DISCHARGE.--58 years, 6,935 ft^3/s (196.4 m^3/s) 5,024,000 acre-ft/yr (6.19 km^3/yr).

EXTREMES.--Current year: Maximum discharge, 51,500 ft^3/s (1,460 m^3/s) June 12 (gage height, 16.91 ft or 5.154 m); minimum, 1,710 ft^3/s (48.43 m^3/s) Sept. 21.

Period of record: Maximum discharge, 510,000 ft^3/s (14,400 m^3/s) July 13, 1951, (gage height, 37.3 ft or 11.37 m, from floodmarks), present site and datum, from rating curve extended above 128,000 ft^3/s (3,620 m^3/s) on basis of slope-area measurement of peak flow at mile 19.52 (31.41 km) and at mile 18.60 (29.93 km); minimum observed, 160 ft^3/s (4.53 m^3/s) Oct. 11, 1956.

Maximum stage known since at least 1844, that of July 13, 1951.

REMARKS.--Records good except those for winter periods, which are poor. Natural flow of stream affected by lakes and reservoirs in Colorado, Nebraska, and Kansas, and by numerous diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 806: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2730	9420	2550	2440	3480	4010	3910	7340	10800	17200	7010	2960
2	2880	7480	2430	2320	2710	4050	4200	6130	8290	17400	6990	2840
3	2890	14800	2370	2310	2430	4090	4340	5660	8570	18000	6720	2810
4	2970	16600	2340	2290	2640	4010	5930	5600	18500	20000	5160	2690
5	2980	10800	2240	2180	4070	3850	6400	5500	17200	21300	4620	2590
6	3270	6290	2160	2430	4270	3660	6680	5220	16700	21000	4450	3070
7	3530	5630	2290	3170	2830	3460	6270	5100	17200	21100	3720	3890
8	3010	4790	2350	3520	2520	3180	5750	5520	16800	21200	3320	3380
9	2710	4130	2250	3390	2560	3040	5990	5590	23400	21500	3220	2510
10	2560	4210	2150	3980	2460	3390	7770	5470	38900	21200	3040	2240
11	2490	5390	2180	5580	2890	3730	7840	5620	37800	20700	2920	2680
12	2460	5470	2520	3710	2950	3850	8440	4950	48100	18300	2730	5210
13	3240	4710	2380	2780	2700	3750	11800	4610	29900	14400	2660	5030
14	5010	4150	2210	2970	2760	3640	12600	4270	23600	11700	2860	2960
15	4530	3790	2140	3200	2830	3620	15800	3710	19500	8770	2970	2480
16	5090	3520	2100	3200	2780	3970	15800	3310	17900	10400	2990	2320
17	4790	3310	2150	2910	2780	4350	14300	3120	17700	10200	2830	2180
18	3530	3180	2150	2550	2720	4550	13300	2970	20900	8950	2780	2020
19	2910	3130	2110	2530	2920	4590	15100	2910	17900	6470	2850	1990
20	2550	3060	2100	2340	2890	4350	18000	2810	21700	5210	3150	1960
21	2180	3010	2090	2470	4270	3930	11200	2700	17800	4680	4280	1780
22	2060	3040	2050	2260	6070	4000	7210	2590	17300	4200	4910	1840
23	1980	3010	2050	2150	6750	3700	6480	3100	33700	3900	4550	1860
24	1950	3310	2040	2250	5670	3340	8490	3950	26100	3720	4140	1890
25	2030	3690	1990	2400	4470	3080	11900	3220	19000	3720	4000	1890
26	2040	3710	1940	2370	4310	2930	9160	2810	18200	3700	3850	1910
27	2090	3690	2040	2190	4470	3390	9140	2680	22100	6030	3780	1820
28	2250	3660	2140	2100	4330	6410	10300	3390	22900	6770	3930	1850
29	2500	3600	2100	2090	---	6200	9490	8570	20300	6910	3670	1900
30	2910	3080	2090	2340	---	5110	8070	9790	17200	6390	3430	1960
31	13700	---	2250	4270	---	4160	---	14000	---	6310	3060	---
TOTAL	101820	157660	67950	86690	98530	123390	281660	152210	645960	371330	120580	76490
MEAN	3285	5255	2192	2796	3519	3980	9389	4910	21530	11980	3890	2550
MAX	13700	16500	2550	5580	6750	6410	18000	14000	48100	21500	7010	5210
MIN	1950	3010	1940	2090	2430	2930	3910	2590	8290	3700	2660	1780
AC-FT	202000	312700	134800	171900	195400	244700	558700	301900	1281000	736500	239200	151700

CAL YR 1974 TOTAL 3005610 MEAN 8235 MAX 48800 MIN 1940 AC-FT 5962000
WTR YR 1975 TOTAL 2284270 MEAN 6258 MAX 48100 MIN 1780 AC-FT 4531000

PEAK DISCHARGE (BASE, 17,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	1900	11.70	21,200	6-20	1000	12.02	22,600
4-15	2200	10.83	17,300	6-23	1800	14.93	39,600
4-20	0400	11.37	19,700	6-27	1700	12.17	23,400
6-4	1600	12.06	22,800	7-9	1100	11.81	21,600
6-12	0800	16.91	51,500				

06893000 Missouri River at Kansas City, Mo.

LOCATION.--Lat 39°06'43", long 94°35'16", in sec.32, T.50 N., R.33 W., Jackson County, on downstream side of right pier of Chicago, Burlington, & Quincy Railroad bridge at Kansas City, 1.4 mi (2.3 km) downstream from Kansas River. River mile, 366.1 (589.1 km).

DRAINAGE AREA.--489,200 mi² (1,267,000 km²), approximately.

PERIOD OF RECORD.--October 1897 to current year. Prior to August 1928 monthly discharge only, published in WSP 1310. Gage-height records collected at same site 1873-99 are contained in reports of Missouri River Commission; those since 1900 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 716.40 ft (218.359 m) above mean sea level. Prior to May 4, 1931, nonrecording gage, and May 4, 1931, to Aug. 23, 1934, water-stage recorder, at present site and datum. Aug. 24, 1934, to May 15, 1947, water-stage recorder at site 200 ft (61.0 m) upstream at same datum. May 16, 1947 to Feb. 28, 1948, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--78 years (1898-1975), 54,720 ft³/s (1,550 m³/s), 39,640,000 acre-ft/yr (48,900 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 109,000 ft³/s (3,090 m³/s) June 27 (gage height, 14.40 ft or 4.389 m); minimum, 14,800 ft³/s (419 m³/s) Jan. 13 (gage height, -1.10 ft or -0.335 m).

Period of record: Maximum discharge, 573,000 ft³/s (16,230 m³/s) July 14, 1951, maximum gage height, 36.2 ft (11.03 m) July 14, 1951; minimum discharge, about 1,500 ft³/s (42.5 m³/s) Jan. 9, 10, 1937; minimum gage height, -2.91 ft (-0.887 m) Jan. 29, 1966.

Maximum stage known, 38.0 ft (11.58 m) June 16, 1844 (discharge, about 625,000 ft³/s or 17,000 m³/s, computed by Corps of Engineers).

REMARKS.--Records good. Discharge measurements made 3 or more times a month during winter and 6 or more times monthly during rest of year. Flow partly regulated by many reservoirs above station.

REVISIONS (WATER YEARS).--WSP 761: Drainage area. WSP 1310: 1905.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41400	65100	32700	31300	31300	35700	52200	75900	72200	79200	67600	73600
2	42000	58700	31000	29600	29600	38000	50600	67000	66900	78700	67400	71500
3	42300	62300	29100	29100	28800	36800	50200	63000	64200	78900	68300	70200
4	41700	62300	27100	28300	28800	35200	48600	61000	62900	77400	68200	69700
5	41400	56000	26800	27800	30500	34300	47100	59000	68400	77800	68200	82800
6	42300	50600	27800	27300	31800	34900	48300	57300	63600	76600	67300	79000
7	43500	48300	28100	28300	29900	35400	50200	54900	62800	76300	65900	74500
8	44700	46500	28300	29100	29100	36000	50600	56700	63600	77000	65200	72500
9	43800	45300	28600	28800	26300	35400	52500	59400	67500	77800	65400	70900
10	43500	45000	28800	29400	24500	35700	55100	55000	87400	77400	65400	69800
11	42300	45900	28000	32700	25000	35400	58000	55300	99400	76300	65400	85100
12	42600	46200	27600	23000	26600	35400	60000	54000	107000	75200	64800	78000
13	43800	45600	27100	20600	27300	35400	61100	52500	98000	71100	65800	77800
14	44700	45300	27600	22500	26600	34900	61500	50400	97500	68600	69000	75300
15	45600	45000	27600	22000	26600	34000	61500	49100	87500	66300	68500	73400
16	45300	44700	28100	18700	27000	34600	63900	48500	83500	63300	67900	70800
17	45300	44700	28800	16800	27600	36000	62700	48000	77900	63300	67000	69800
18	42600	43800	28400	18400	27800	41700	64700	47400	78700	61200	66900	69900
19	41100	42600	27600	26300	27600	54400	65500	47500	92000	59100	67300	70200
20	41100	42900	27100	29100	28800	58000	68700	48100	99500	57800	70600	69800
21	40500	42900	26800	28800	31800	63500	65100	48700	96100	58400	70000	70300
22	40500	43200	27100	27600	35700	60000	59700	48800	91200	58400	68300	70800
23	40500	43200	27800	26800	37400	54100	59000	48200	96600	60000	66200	70600
24	41100	42300	28800	26600	35700	49200	71500	48700	103000	60600	65500	70300
25	41400	42300	29100	26800	33200	48600	74700	50200	102000	61500	72300	68800
26	40800	42000	29100	27800	32700	51200	72300	51300	103000	62000	72500	68700
27	41400	41400	29100	28800	33500	52500	63900	52300	108000	64600	71400	68900
28	42000	40200	29400	29600	34600	50600	61100	52500	98500	63300	70200	69700
29	42600	38200	29600	29900	---	57700	69100	58600	90700	69300	72000	69500
30	45300	35400	30800	29600	---	63500	87100	71700	82300	69600	73600	69700
31	65100	---	31600	31800	---	57400	---	73400	---	66500	77200	---
TOTAL	1342200	1397900	886200	833200	836100	1365500	1816500	1714400	2571900	2137500	2121300	2171900
MEAN	43300	46600	28590	26880	29860	44050	60550	55300	85730	68950	68430	72400
MAX	65100	65100	32700	32700	37400	63500	87100	75900	108000	79200	77200	85100
MIN	40500	35400	26800	16800	24500	34000	47100	47400	62800	57800	64800	68700
AC-FT	2662000	2773000	1758000	1653000	1658000	2708000	3603000	3401000	5101000	4240000	4208000	4308000

CAL YR 1974 TOTAL 19056700 MEAN 52210 MAX 177000 MIN 26600 AC-FT 37800000
WTR YR 1975 TOTAL 19194600 MEAN 52590 MAX 108000 MIN 16800 AC-FT 38070000

06893500 Blue River near Kansas City, Mo.

LOCATION.--Lat 38°57'26", long 94°33'31", in SE¼NE¼ sec.28, T.48 N., R.33 W., Jackson County, on downstream side of right pier of bridge on Bannister Road, 0.4 mi (0.6 km) downstream from Indian Creek, in Kansas City and at river mile 23.16 (37.3 km).

DRAINAGE AREA.--188 mi² (487 km²).

PERIOD OF RECORD.--May 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 753.73 ft (229.737 m) above mean sea level (levels by Corps of Engineers). Prior to July 1, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 151 ft³/s (4.28 m³/s), 10.91 in/yr (277 mm/yr), 109,400 acre-ft/yr (135 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7,100 ft³/s (201 m³/s) Nov. 3 (gage height, 21.72 ft or 6.620 m); minimum, 6.7 ft³/s (0.190 m³/s) Sept. 7, 8 (gage height, 3.95 ft or 1.204 m).

Period of record: Maximum discharge, 41,000 ft³/s (1,160 m³/s) Sept. 13, 1961 (gage height, 44.46 ft or 13.551 m); no flow September 1939 to February 1940 and in August 1946.

Maximum stage known prior to 1961, about 39 ft (11.9 m) Nov. 17, 1928, from information by City of Kansas City.

REMARKS.--Records poor. Low flow regulated by commercial plants above station.

REVISIONS.--WSP 926: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	177	41	485	1680	250	149	100	136	22	14	15
2	16	110	39	162	809	200	358	91	107	21	14	18
3	16	4760	36	175	730	150	277	196	130	21	13	14
4	15	1310	34	150	890	136	300	107	98	20	13	14
5	53	252	34	104	1060	120	207	89	73	18	13	17
6	48	156	65	737	526	115	172	78	61	17	13	16
7	28	128	96	650	397	135	153	71	58	23	13	12
8	21	114	67	375	418	110	158	66	84	19	12	13
9	20	105	48	274	204	106	155	58	240	16	12	13
10	18	137	42	291	180	133	134	53	535	15	11	14
11	18	167	305	888	150	136	120	97	370	16	12	499
12	32	115	442	225	140	152	110	61	147	14	12	59
13	301	97	127	95	130	135	118	51	101	14	20	24
14	86	86	95	88	130	122	195	48	79	14	83	21
15	43	74	120	95	120	157	160	46	65	14	26	22
16	34	62	92	88	576	275	127	40	57	14	18	18
17	31	64	76	78	1400	259	114	37	95	14	15	17
18	24	62	67	79	1220	187	123	35	76	14	23	17
19	21	61	67	226	815	157	108	34	58	14	15	43
20	21	58	63	129	1020	139	89	32	49	28	14	37
21	21	54	61	107	866	130	82	30	42	21	14	23
22	21	52	61	109	600	118	79	28	38	17	13	19
23	19	49	57	78	400	112	88	84	38	15	13	14
24	20	45	64	90	300	102	923	39	34	14	12	14
25	22	43	59	200	222	89	1160	36	32	23	120	12
26	20	41	44	132	300	90	237	83	33	21	71	12
27	22	40	50	86	400	297	172	48	29	17	24	13
28	24	37	50	77	300	307	230	1060	26	16	46	26
29	29	36	51	78	---	233	140	1270	24	16	33	38
30	127	38	78	1670	---	196	115	567	23	21	22	83
31	2110	---	665	5240	---	173	---	207	---	16	17	---
TOTAL	3298	8534	3196	13261	15983	5021	6553	4842	2938	545	751	1157
MEAN	106	284	103	428	571	162	218	156	97.9	17.6	24.2	38.6
MAX	2110	4760	665	5240	1680	307	1160	1270	535	28	120	499
MIN	15	36	34	77	120	89	79	28	23	14	11	12
CFSM	.56	1.51	.55	2.28	3.04	.86	1.16	.83	.52	.09	.13	.21
IN.	.65	1.69	.63	2.62	3.16	.99	1.30	.96	.58	.11	.15	.23
AC-FT	6540	16930	6340	26300	31700	9960	13000	9600	5830	1080	1490	2290

CAL YR 1974 TOTAL 89500 MEAN 245 MAX 6900 MIN 11 CFSM 1.30 IN 17.71 AC-FT 177500
WTR YR 1975 TOTAL 66079 MEAN 181 MAX 5240 MIN 11 CFSM .96 IN 13.08 AC-FT 131100

PEAK DISCHARGE (BASE, 5,800 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	1130	21.72	7,100	1-31	0145	20.64	6,460

06893560 Brush Creek at Main St. in Kansas City, Mo.

LOCATION.--Lat 39°02'24", long 94°35'12", SW¼NE¼SW¼ sec.29, T.49 N., R.33 W., Jackson County, on right bank 25 ft (8 m) downstream from bridge on Main St. and 4 mi (6.4 km) upstream from Blue River.

DRAINAGE AREA.--14.8 mi² (38.3 km²).

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 815 ft (248.4 m) from topographic map.

AVERAGE DISCHARGE.--5 years, 8.27 ft³/s (0.23 m³/s), 7.59 in/yr (193 mm/yr), 5,990 acre-ft/yr (7.39 hm³/yr.

EXTREMES.--Current year: Maximum discharge, 4,000 ft³/s (113 m³/s) Sept. 11 (gage height, 9.20 ft or 2.804 m); minimum, 0.04 ft³/s (0.001 m³/s) Dec. 9; minimum gage height, 3.00 ft (0.914 m) Aug. 8.
Period of record: Maximum discharge, 4,000 ft³/s (113 m³/s) Sept. 11, 1975 (gage height, 9.20 ft or 2.804 m); no flow Dec. 9-16, 1972, July 17, 1973.

REMARKS.--Records poor. Flow affected by waste water from urbanized area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.37	1.6	.79	.54	5.5	2.5	1.9	1.9	1.6	.58	.50	.49
2	.34	.80	.58	.59	5.0	2.2	15	2.3	1.5	.58	1.0	1.0
3	.31	65	.30	1.8	2.8	1.9	5.8	9.5	4.0	.43	.50	.55
4	.28	3.7	.24	.69	5.6	2.5	6.3	1.8	.82	.43	.50	.38
5	.94	.92	.25	.86	26	1.9	4.7	1.6	.54	.43	.91	8.6
6	.25	.50	2.1	2.1	90	2.2	3.4	1.6	.43	.43	.46	.71
7	.22	.36	.76	.76	5.4	3.6	2.9	1.4	2.8	.56	.27	.31
8	.19	.31	.13	.58	3.1	1.9	5.9	1.3	12	.56	.18	.27
9	.16	.70	.08	.46	2.7	2.8	3.2	1.2	32	1.1	.18	.28
10	.20	2.8	.09	3.6	10	5.9	2.7	1.2	134	1.3	.20	15
11	.31	.92	1.4	2.0	2.4	6.2	2.5	12	9.4	1.2	.27	216
12	8.2	.47	.49	2.3	2.5	4.8	2.3	1.5	1.8	1.2	.39	2.8
13	74	1.1	.19	4.6	2.0	3.1	5.0	1.3	.97	.98	11	1.3
14	2.9	.86	1.5	2.9	1.8	3.2	7.4	1.3	.70	.91	21	1.5
15	1.1	.39	.44	2.5	7.1	4.0	2.3	1.2	.66	.96	1.2	2.7
16	.95	.39	.21	1.7	7.6	4.1	2.3	1.2	2.9	1.0	.83	1.2
17	.31	.40	.23	4.2	7.7	2.9	1.9	1.2	3.4	1.5	.84	.99
18	.44	.36	.36	1.4	4.5	2.9	6.1	1.2	.90	1.6	.95	1.3
19	.85	.42	.42	5.2	6.5	2.4	2.1	1.1	.79	1.8	2.8	3.7
20	.87	.46	.17	3.0	6.2	2.3	1.6	1.1	.58	7.6	1.3	1.2
21	.71	.42	.22	1.2	4.6	2.4	1.7	1.1	.43	3.2	.86	.84
22	.68	.42	.19	2.0	3.6	2.2	1.7	1.1	.41	2.7	1.4	.72
23	.81	.44	.88	.68	4.1	2.3	2.1	1.0	.55	2.6	1.1	.66
24	.77	.57	.78	1.6	5.9	2.2	22	1.0	.57	3.2	.63	.66
25	1.1	.5[illegible]	.31	2.0	3.7	2.4	3.6	1.0	.41	1.9	293	.61
26	.55	1.2	.48	1.2	3.2	4.1	3.2	1.0	.41	1.0	5.0	.57
27	.48	1.4	.20	1.2	2.7	8.5	3.2	1.0	.38	.60	1.1	.49
28	2.0	.11	.21	1.4	2.5	5.0	5.4	1.0	.41	2.0	15	7.8
29	.66	.22	.16	1.5	---	2.5	[illegible].1	274	.50	1.0	4.4	3.2
30	333	.47	.64	13	---	1.8	[illegible]0	7.6	.39	.50	1.1	8.7
31	45	---	3.1	6.5	---	1.8	---	2.5	---	.50	.64	---
TOTAL	478.95	88.19	17.86	74.06	234.7	98.5	132.3	339.2	216.25	44.33	369.51	284.33
MEAN	15.5	2.94	.58	2.39	8.38	3.18	4.41	10.9	7.21	1.43	11.9	9.48
MAX	333	65	3.1	13	90	8.5	22	274	134	7.6	293	216
MIN	.16	.11	.08	.46	1.8	1.8	1.6	1.0	.38	.43	.18	.27
CFSM	1.05	.20	.04	.16	.57	.21	.30	.74	.49	.10	.80	.64
IN.	1.20	.22	.04	.19	.59	.25	.33	.85	.54	.11	.93	.71
AC-FT	950	175	35	147	466	195	262	673	429	88	733	564

CAL YR 1974 TOTAL 2738.88 MEAN 7.50 MAX 418 MIN .08 CFSM .51 IN 6.88 AC-FT 5430
WTR YR 1975 TOTAL 2378.18 MEAN 6.52 MAX 333 MIN .08 CFSM .44 IN 5.98 AC-FT 4720

PEAK DISCHARGE (BASE, 800 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-30	2115	6.51	1,790	6-10	0030	8.12	3,080
2-5	2315	7.57	2,640	8-25	0915	5.35	970
5-29	1745	5.75	1,220	9-11	0215	9.20	4,000

06893793 Little Blue River below Longview damsite in Kansas City, Mo.

LOCATION.--Lat 38°55'52", long 94°28'12", in NW¼SE¼SE¼ sec.32, T.48 N., R.32 W., Jackson County, on left bank 700 ft (213 m) downstream from Longview damsite in Kansas City, 1 mile (1.6 km) downstream from Longview Road and 2.0 miles (3.2 km) upstream from Cedar Creek.

DRAINAGE AREA.--50.7 mi² (131.3 km²).

PERIOD OF RECORD.--August 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 798.60 ft (243.413 m) above mean sea level. Prior to Oct. 25, 1974 at site 1.0 mile (1.6 km) upstream and at datum 24.90 ft (7.590 m) higher.

AVERAGE DISCHARGE.--9 years, 49.7 ft³/s (1.41 m³/s) 13.31 in/yr (338 mm/yr) 36,010 acre-ft/yr (44.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7,000 ft³/s (198 m³/s) June 11 (gage height, 8.32 ft or 2.536 m); minimum, 0.54 ft³/s (0.015 m³/s) Aug. 7-10 (gage height, 0.94 ft or 0.287 m).
Period of record: Maximum discharge, 9,880 ft³/s (280 m³/s) June 27, 1969 (gage height, 11.19 ft or 3.411 m) at site and datum then in use; minimum, 0.5 ft³/s (0.014 m³/s) Oct. 3, 1966 at site and datum then in use.

REMARKS.--Records fair except for periods of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	8.0	6.0	19	74	117	33	27	15	4.8	2.3	2.4
2	4.6	7.4	7.2	10	53	50	219	55	12	5.1	2.0	1.9
3	4.6	676	6.3	10	53	29	108	49	26	5.0	1.3	1.7
4	4.6	51	6.3	11	101	23	87	26	12	4.6	1.0	1.7
5	8.0	17	8.3	9.6	50	23	46	20	9.3	4.0	.94	1.6
6	8.8	10	17	80	33	26	34	16	7.4	3.6	.72	1.6
7	5.2	8.7	31	33	27	51	28	13	6.7	3.6	.65	1.6
8	4.1	8.7	12	19	20	24	31	12	17	3.4	.54	1.7
9	4.1	7.8	9.2	12	15	21	29	10	95	3.4	.54	1.5
10	3.5	10	8.5	90	13	31	22	9.4	48	3.3	.72	1.7
11	3.5	18	48	27	9.2	37	18	22	609	3.2	.72	346
12	8.0	9.5	50	20	10	58	16	10	48	2.9	.66	21
13	18	8.1	15	11	10	38	16	8.9	25	2.8	1.9	7.2
14	10	7.5	13	11	9.6	30	44	10	15	2.8	24	5.4
15	5.8	6.6	20	12	11	99	31	9.9	12	2.2	3.5	4.0
16	4.6	6.6	11	12	26	182	20	9.0	11	1.8	2.3	3.0
17	4.6	6.0	8.9	10	132	98	15	8.1	134	1.8	1.9	3.0
18	4.6	6.3	7.8	8.9	80	54	16	7.0	28	1.7	2.3	3.0
19	4.1	6.4	8.2	19	53	37	37	6.3	14	1.5	2.3	2.0
20	4.1	6.6	6.6	28	80	30	15	5.5	11	1.6	3.5	2.0
21	4.1	6.6	6.3	10	236	25	12	5.2	9.0	2.8	1.9	2.0
22	4.1	6.0	5.8	12	116	21	12	5.2	8.2	2.0	1.5	2.0
23	3.0	6.3	5.8	11	30	19	21	7.0	7.5	1.4	1.3	2.0
24	4.1	6.1	5.4	8.2	53	14	200	5.9	7.5	1.3	1.3	2.0
25	3.6	5.8	5.2	16	64	10	704	5.2	7.4	2.5	1.9	2.0
26	3.8	5.1	5.2	10	131	9.6	140	32	7.8	1.8	3.9	2.0
27	2.7	4.8	4.5	8.2	139	172	148	7.3	5.4	1.4	2.3	2.0
28	2.0	5.2	4.9	8.2	165	164	93	189	6.0	1.2	3.9	2.0
29	5.0	7.5	4.9	8.2	---	125	47	130	4.6	1.3	3.4	2.0
30	3.7	7.5	5.4	418	---	72	34	167	5.0	1.3	2.9	3.0
31	180	---	116	441	---	48	---	28	---	2.1	2.4	---
TOTAL	335.5	947.1	469.7	1403.3	1793.8	1737.6	2276	915.9	1223.8	82.2	80.39	435.0
MEAN	10.8	31.6	15.2	45.3	64.1	56.1	75.9	29.5	40.8	2.65	2.59	14.5
MAX	180	676	116	441	236	182	704	189	609	5.1	24	346
MIN	2.0	4.8	4.5	8.2	9.2	9.6	12	5.2	4.6	1.2	.54	1.5
CFSM	.21	.62	.30	.89	1.26	1.11	1.50	.58	.80	.05	.05	.29
IN.	.25	.69	.34	1.03	1.32	1.27	1.67	.67	.90	.06	.06	.32
AC-FT	665	1880	932	2780	3560	3450	4510	1820	2430	163	159	863

CAL YR 1974 TOTAL 16160.0 MEAN 44.3 MAX 1710 MIN 1.4 CFSM 0.87 IN 12.58 AC-FT 32050
WTR YR 1975 TOTAL 11700.29 MEAN 32.1 MAX 704 MIN .54 CFSM .63 IN 8.58 AC-FT 23210

PEAK DISCHARGE (BASE, 2,200 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	0800	5.38	2,380	6-11	0145	8.32	7,000
4-25	0145	7.98	6,160				

06893890 East Fork Little Blue River near Blue Springs, Mo.

LOCATION.--Lat 39°01'32", long 94°20'37" in NE¼NE¼NW¼ sec.33, T.49 N., R.31 W., Jackson County, on left downstream side of bridge on east bound lane of U.S. Highway 40, 2.6 miles (4.2 km) west of Blue Springs, and 1.5 miles (2.4 km) upstream from mouth.

DRAINAGE AREA.--34.4 mi² (89.1 km²).

PERIOD OF RECORD.--October 1974 to current year. Annual peaks, 1970-74.

GAGE.--Water-stage recorder. Datum of gage is 753.09 ft (229.542 m) furnished by Corps of Engineers.

EXTREMES.--Current year: Maximum discharge, 334 ft³/s (9.46 m³/s), June 11 (gage height, 10.36 ft or 3.158 m); no flow on many days.
Period of record: Maximum discharge not determined, May 18, 1974, (gage height, 19.19 ft or 5.849 m); no flow at times each year.

REMARKS.--Records poor. Flow impounded or detained in Jackson County Lake at times.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.0	7.3	1.6	50	139	97	49	26	8.3	4.0	.15	.12
2	2.0	5.0	1.5	20	82	80	69	31	8.0	3.0	.42	.11
3	2.0	105	1.5	10	55	56	46	29	11	3.2	.34	.05
4	2.0	19	1.4	10	49	42	60	27	11	3.0	.20	.02
5	5.0	13	1.4	10	54	54	68	26	10	2.8	.10	0
6	5.0	10	1.5	50	37	26	47	21	8.6	2.6	0	0
7	4.0	4.8	2.9	20	39	28	40	5.7	7.6	2.4	0	0
8	3.0	3.4	2.5	10	19	21	30	15	7.1	2.2	0	.02
9	2.0	3.3	1.9	10	19	26	30	15	29	1.8	0	.06
10	2.0	3.0	1.8	50	16	33	31	14	124	1.2	0	.07
11	3.0	3.9	7.9	20	14	29	30	10	20	1.2	0	88
12	4.0	3.1	11	15	15	42	30	8.9	15	1.0	0	3.9
13	6.0	2.9	4.8	15	13	60	30	17	15	.82	0	1.9
14	4.0	2.7	4.1	15	12	47	30	17	15	.70	0	1.2
15	2.8	2.5	6.5	15	15	44	27	16	15	.62	0	.94
16	2.8	2.5	4.2	13	20	39	27	15	20	.62	0	.82
17	2.3	2.5	3.5	12	79	39	28	14	50	.58	0	.76
18	2.4	2.4	3.2	12	64	26	40	13	20	.58	0	.70
19	3.0	2.4	3.1	17	48	45	31	12	15	.70	0	.54
20	2.4	2.3	2.9	21	56	57	26	10	10	.66	0	.42
21	2.0	2.5	2.7	14	109	20	33	8.0	10	.62	0	.27
22	1.6	2.2	2.7	11	96	15	28	7.0	9.0	.58	0	.18
23	1.9	2.0	3.1	11	96	7.6	33	7.1	8.0	.42	0	.27
24	2.1	2.7	2.5	12	71	44	87	7.0	8.0	.38	0	.27
25	2.3	3.3	2.5	20	52	53	236	6.8	7.0	.34	.43	.27
26	2.4	2.7	2.4	17	49	64	150	8.0	6.0	.30	7.8	.21
27	2.4	2.2	2.3	12	58	75	99	7.2	6.0	.27	1.6	.12
28	2.3	2.0	2.3	11	71	60	81	8.1	5.0	.21	.59	.09
29	2.3	1.6	2.3	18	---	47	41	15	4.7	.21	.34	.06
30	2.7	1.6	2.3	50	---	114	29	11	4.0	.15	.22	.12
31	11	---	100	163	---	99	---	9.2	---	.15	.14	---
TOTAL	95.7	224.0	194.3	734	1447	1489.6	1626	437.0	487.3	37.31	12.33	101.49
MEAN	3.09	7.47	6.27	23.7	51.7	48.1	54.2	14.1	16.2	1.20	.40	3.38
MAX	11	105	100	163	139	114	236	31	124	4.0	7.8	88
MIN	1.6	1.6	1.4	10	12	7.6	26	5.7	4.0	.15	0	0
CFSM	.09	.22	.18	.69	1.50	1.40	1.58	.41	.47	.03	.01	.10
IN.	.10	.24	.21	.79	1.56	1.61	1.76	.47	.53	.04	.01	.11
AC-FT	190	444	385	1460	2870	2950	3230	867	967	74	24	201

WTR YR 1975 TOTAL 6886.03 MEAN 18.9 MAX 236 MIN 0 CFSM .55 IN 7.45 AC-FT 13660

PEAK DISCHARGE (BASE, 1,000 FT³/s).--No peak above base.

06894000 Little Blue River near Lake City, Mo.

LOCATION.--Lat 39°06'02", long 94°18'01", in SW¼SE¼ sec.35, T.50 N., R.31 W., Jackson County, at downstream side of right pier of upstream bridge on dual State Highway 78, 3 mi (4.8 km) southwest of Lake City, and 10.5 mi (16.9 km) upstream from mouth.

DRAINAGE AREA.--184 mi² (477 km²).

PERIOD OF RECORD.--March 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 719.15 ft (219.197 m) above mean sea level. Prior to July 24, 1957, nonrecording gage at site 50 ft (15 m) downstream at same datum.

AVERAGE DISCHARGE.--27 years, 135 ft³/s (3.82 m³/s), 9.96 in/yr (253 mm/yr), 98,100 acre-ft/yr (121 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,810 ft³/s (79.6 m³/s) Sept. 11 (gage height, 23.01 ft or 7.013 m); minimum measured, 10 ft³/s (0.283 m³/s) Aug. 8 (gage height, 4.87 ft or 1.484 m).
Period of record: Maximum discharge, 9,460 ft³/s (268 m³/s) Sept. 14, 1961 (gage height, 27.94 ft or 8.516 m); no flow at times during 1953-54, 1973.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	243	43	257	683	367	224	170	98	39	20	28
2	23	85	43	143	365	304	296	160	76	36	19	27
3	22	800	37	124	286	229	472	164	80	34	17	26
4	22	790	43	123	272	193	375	140	64	33	15	25
5	25	226	42	115	356	189	303	131	82	32	14	31
6	49	145	46	130	311	181	236	114	67	30	12	24
7	52	111	78	186	251	165	192	98	49	28	11	22
8	38	90	85	151	169	170	187	83	47	27	10	19
9	30	80	58	128	120	144	187	85	118	27	12	18
10	28	77	51	157	100	150	180	76	988	26	11	36
11	33	97	87	302	90	168	164	78	1820	26	12	1540
12	170	92	253	172	90	179	138	84	819	26	12	519
13	493	74	143	139	80	180	130	71	261	25	14	125
14	270	67	104	114	80	170	157	60	173	24	34	80
15	102	62	135	109	80	164	180	70	129	24	39	70
16	67	59	114	103	113	254	145	63	239	24	55	52
17	52	55	88	97	431	315	124	52	248	22	30	39
18	45	52	79	96	325	259	119	61	228	22	23	42
19	43	52	75	106	238	213	144	55	141	21	23	46
20	41	58	74	118	247	189	139	50	108	19	39	79
21	39	51	72	109	613	170	113	47	84	19	17	60
22	37	49	70	107	492	155	112	48	75	20	21	40
23	36	47	65	101	359	139	110	44	69	20	21	33
24	36	45	65	101	286	144	200	42	64	20	20	33
25	36	44	64	114	255	133	910	45	59	20	201	29
26	36	44	60	127	311	99	600	54	55	21	328	28
27	37	40	61	109	353	156	400	70	53	22	62	28
28	38	43	62	97	360	415	300	184	50	21	45	32
29	38	40	63	97	---	372	200	609	45	21	32	42
30	37	43	60	155	---	300	174	436	43	20	29	42
31	271	---	165	1350	---	251	---	198	---	20	30	---
TOTAL	2270	3760	2485	5337	7716	6517	7211	3642	6431	749	1228	3215
MEAN	73.2	125	80.2	172	276	210	240	117	214	24.8	39.6	107
MAX	493	800	253	1350	683	415	910	609	1820	39	328	1540
MIN	22	40	37	96	80	99	110	42	43	19	10	18
CFSM	.40	.68	.44	.93	1.50	1.14	1.30	.64	1.16	.13	.22	.58
IN.	.46	.76	.50	1.08	1.56	1.32	1.46	.74	1.30	.16	.25	.65
AC-FT	4500	7460	4930	10590	15300	12930	14300	7220	12760	1530	2440	6380

CAL YR 1974 TOTAL 75075 MEAN 206 MAX 7200 MIN 14 CFSM 1.12 IN 15.18 AC-FT 148900
WTR YR 1975 TOTAL 50581 MEAN 139 MAX 1820 MIN 10 CFSM .76 IN 10.23 AC-FT 100300

PEAK DISCHARGE (BASE, 2,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-11	1845	19.81	2,050	9-11	0845	23.01	2,810

06894680 Sni-A-Bar Creek near Tarsney, Mo.

LOCATION.--Lat 38°56'28", long 94°10'05", in SW¼SW¼NW¼ sec.30, T.48 N., R.29 W., Jackson County, on right bank 8 ft (2.4 m) downstream from bridge on Colburn Road, 2.3 mi (3.7 km) upstream from West Fork, 2.7 mi (4.3 km) east of Tarsney and 5 mi (8.0 km) southeast of Grain Valley.

DRAINAGE AREA.--29.1 mi² (75.4 km²).

PERIOD OF RECORD.--June 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 788.37 ft (240.295 m) above mean sea level.

AVERAGE DISCHARGE.--5 years, 23.6 ft³/s (0.67 m³/s), 11.01 in/yr (280 mm/yr), 17,100 acre-ft/yr (21.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,300 ft³/s (122 m³/s) Sept. 11 (gage height, 21.93 ft or 6.684 m); no flow on many days.

Period of record: Maximum discharge, 4,300 ft³/s (122 m³/s) Sept. 11, 1975; maximum gage height, 22.05 ft (6.721 m) May 18, 1974; no flow at times in most years.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	2.6	1.0	42	57	100	22	17	2.4	.50	0	0
2	.30	2.6	1.0	29	44	53	90	16	1.2	.60	0	0
3	.20	224	1.0	27	40	34	49	22	3.2	.10	0	0
4	.10	25	1.0	28	49	28	35	16	1.8	0	0	0
5	.10	17	1.0	29	44	30	26	12	.40	0	0	0
6	.20	15	1.0	42	34	30	23	9.5	.10	0	0	0
7	.30	14	8.0	28	24	35	18	7.2	.10	0	0	0
8	.30	13	4.0	24	22	20	20	9.5	.10	0	0	0
9	.30	12	1.8	18	13	18	20	10	11	0	0	0
10	.30	11	1.6	22	14	18	16	9.5	6.8	0	0	20
11	.20	22	34	11	17	17	14	7.6	40	0	0	2080
12	7.8	11	26	6.4	16	31	12	6.9	14	0	0	90
13	15	8.5	12	3.7	15	28	11	6.4	9.0	0	0	28
14	8.0	6.0	12	4.0	14	31	17	6.0	6.8	0	0	14
15	2.6	4.8	20	4.0	14	45	14	6.0	4.8	0	0	12
16	.60	4.0	10	4.0	62	57	12	2.9	23	0	0	8.5
17	.10	3.7	7.2	2.9	95	38	12	6.0	66	0	0	7.2
18	.10	3.2	6.0	4.8	53	28	12	5.2	17	0	0	5.6
19	.10	3.2	6.0	8.0	45	22	10	4.4	12	0	0	20
20	.50	2.6	4.8	5.6	100	17	6.8	4.0	10	0	0	9.5
21	.10	1.9	4.0	6.4	104	16	6.0	2.4	8.5	0	0	6.0
22	.10	2.1	3.9	7.2	65	12	6.8	2.4	3.7	0	0	4.4
23	.20	1.9	3.5	4.8	45	10	10	1.2	2.1	0	0	1.8
24	.20	1.4	17	21	46	4.0	243	.90	1.8	0	0	1.3
25	.20	1.0	10	31	42	3.5	117	2.4	1.2	.10	.20	.50
26	.60	1.0	8.0	15	49	4.0	45	1.3	1.0	0	0	.40
27	1.5	1.0	5.2	12	58	95	34	1.0	.80	0	0	.20
28	.40	2.2	6.4	11	113	80	54	.60	.40	0	0	.30
29	.20	1.1	6.8	12	---	61	30	4.0	.30	0	0	.80
30	.10	1.0	6.0	185	---	38	24	15	.20	0	0	1.6
31	7.3	---	140	201	---	28	---	5.6	---	0	0	---
TOTAL	48.40	419.8	370.2	849.8	1294	1031.5	1009.6	220.80	249.70	1.30	.20	2312.10
MEAN	1.56	14.0	11.9	27.4	46.2	33.3	33.7	7.12	8.32	.042	.007	77.1
MAX	15	224	140	201	113	100	243	22	66	.60	.20	2080
MIN	.10	1.0	1.0	2.9	13	3.5	6.0	.60	.10	0	0	0
CFSM	.05	.48	.41	.94	1.59	1.14	1.16	.24	.29	.001	.0002	2.65
IN.	.06	.54	.47	1.09	1.65	1.32	1.29	.28	.32	.002	.0003	2.96
AC-FT	96	833	734	1690	2570	2050	2000	438	495	2.6	.4	4590

CAL YR 1974 TOTAL 8075.80 MEAN 22.1 MAX 1120 MIN 0 CFSM .76 IN 10.32 AC-FT 16020
WTR YR 1975 TOTAL 7807.40 MEAN 21.4 MAX 2080 MIN 0 CFSM .74 IN 9.98 AC-FT 15490

PEAK DISCHARGE (BASE, 700 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	0930	12.33	766	9-11	0600	21.93	4,300
4-24	2100	13.98	1,150				

06895500 Missouri River at Waverly, Mo.

LOCATION.--Lat 39°12'50", long 93°30'50", sec.14, T.51 N., R.24 W., Lafayette County, on right bank 450 ft (137 m) downstream from bridge on U.S. Highway 65 at Waverly. River mile, 239.4 (385.2 km).

DRAINAGE AREA.--491,200 mi² (1,272,000 km²), approximately.

PERIOD OF RECORD.--October 1928 to current year. Gage-height records collected at same site 1878-79, 1883-99 are contained in reports of Missouri River Commission; since 1915 in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 646.00 ft (196.901 m) above mean sea level. Prior to Jan. 1, 1934, at datum 5.00 ft (1.524 m) lower; Mar. 30, 1929, to Apr. 4, 1934, nonrecording gage, Apr. 5, 1934, to June 13, 1943, water-stage recorder, June 14, 1943, to Sept. 15, 1944, nonrecording gage, and Sept. 16, 1944, to May 28, 1969, water-stage recorder at present datum; all at site 450 ft (137 m) upstream.

AVERAGE DISCHARGE.--47 years, 48,470 ft³/s (1,370 m³/s), 35,120,000 acre-ft/yr (43,300 hm³/yr).

EXTREMES.--Current year: Maximum discharge observed, 108,000 ft³/s (3,060 m³/s) June 28; maximum gage height observed, 18.70 ft (5.700 m) June 27, 28; minimum discharge, 17,200 ft³/s (487 m³/s) Jan. 18, 19 (gage height, 4.98 ft or 1.518 m).

Period of record: Maximum discharge, 549,000 ft³/s (15,550 m³/s) July 16, 1951; maximum gage height, 28.85 ft (8.793 m) Oct. 13, 1973; minimum discharge, about 1,700 ft³/s (48.1 m³/s) Jan. 9, 1940; minimum, gage height, 0.4 ft (0.122 m) Jan. 12, 1930, present datum.

REMARKS.--Records good. Discharge measurements made 3 times a month during winter and 4 or more times monthly during rest of the year. Flow partly regulated by many reservoirs above station.

REVISIONS.--WSP 761: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41100	72300	35600	31600	38600	36300	53600	90800	79300	78300	66500	78600
2	41300	63700	33300	30200	34100	37200	51700	74100	69600	79600	68400	73700
3	41500	63200	31700	28300	31300	38200	52400	66700	66400	78900	68500	70900
4	41600	75800	29700	28000	29900	36300	52800	62600	62100	79200	69500	69000
5	41600	62400	28200	27800	31000	34300	50800	60700	66800	78500	69600	74800
6	42600	54500	28100	27800	32800	33900	49100	59500	65000	77700	68800	87400
7	42600	49600	29300	28600	32900	34500	50700	56400	62800	76900	66400	79900
8	45200	48300	29700	29400	31000	35100	51400	54500	62400	77200	66600	72700
9	45200	47100	29800	29900	28600	35400	51700	59400	65000	78600	65700	71400
10	44600	46400	30000	29600	25700	35100	53500	57300	73800	78500	65700	70800
11	44600	46600	30100	31000	24800	35100	57200	55000	95200	79000	64800	85100
12	44600	47600	30700	34500	25400	35100	60400	55000	105000	78100	63600	95100
13	47800	47400	29600	31800	26900	34500	62000	52600	105000	75100	64800	80800
14	51700	46900	28100	26200	27800	33900	62400	50600	95800	72400	66600	76600
15	47500	46100	28500	23200	27200	33300	61600	48800	95800	67800	68000	72700
16	46800	45200	28900	22500	27200	32700	63200	48200	89200	63400	67500	72000
17	46500	44700	28900	19800	29900	33900	64200	47800	88000	64300	67500	70000
18	45900	43900	29400	17600	32200	36000	62400	47200	77800	63500	67500	70800
19	43000	42700	28600	18000	30800	44200	66400	47200	78800	61800	68000	71000
20	41600	42200	27500	24500	29200	58000	67300	47500	99600	59400	69000	70300
21	41300	42300	27000	29400	33300	59600	69600	48400	100000	58600	72400	70500
22	40400	42300	26800	29300	37900	64300	63200	48400	96800	58900	72400	70000
23	40400	42600	27000	28200	39600	58400	59200	47800	89700	60100	72400	71500
24	41000	42600	28600	27300	39100	52500	85800	47800	101000	61800	68600	72200
25	41400	42900	29400	27000	35600	48400	98000	48900	99000	60900	67700	72200
26	42000	43000	29400	26800	32800	47100	85800	50300	96300	61600	85700	70300
27	42000	42300	28800	27400	33200	50000	73300	52000	102000	63200	73300	69300
28	41600	41500	28600	28400	34400	51900	65500	52400	103000	67500	73300	69200
29	42000	40000	28000	29300	---	51300	64900	56000	94600	70300	71500	70100
30	42600	37800	28000	29900	---	60700	86900	71400	87500	71100	73500	69500
31	53200	---	29600	33500	---	60800	---	82600	---	67200	74400	---
TOTAL	1355200	1453900	906900	856800	882600	1338000	1897000	1748600	2573300	2169600	2148200	2218600
MEAN	43720	48460	29250	27640	31510	43160	63230	56400	85780	69980	69300	73950
MAX	53200	75800	35600	34500	39600	64300	98000	90800	105000	79600	85700	95100
MIN	40400	37800	26800	17600	24800	32700	49100	47200	62100	58600	63600	69000
AC-FT	2688000	2884000	1799000	1699000	1750000	2654000	3763000	3468000	5104000	4303000	4261000	4400000

CAL YR 1974 TOTAL 19824600 MEAN 54320 MAX 224000 MIN 26800 AC-FT 39330000
WTR YR 1975 TOTAL 19567900 MEAN 53560 MAX 105000 MIN 17600 AC-FT 38770000

06897500 Grand River near Gallatin, Mo.

LOCATION.--Lat 39°55'37", long 93°56'33", in SW¼NW¼ sec.16, T.59 N., R.27 W., Daviess County, on left bank 100 ft (30 m) upstream from bridge on State Highway 6, 50 ft (15 m) downstream from Chicago, Rock Island & Pacific Railroad Co. bridge, 1 mi (1.6 km) northeast of Gallatin, and 6 mi (9.7 km) upstream from Honey Creek, and at mile 90 (144.8 km).

DRAINAGE AREA.--2,250 mi^2 (5,830 km^2), approximately.

PERIOD OF RECORD.--June 1921 to current year.

GAGE.--Water-stage recorder. Datum of gage is 712.56 ft (217.188 m) above mean sea level. Prior to Jan. 31, 1922, nonrecording gage at site 100 ft (30 m) upstream at same datum. Jan. 31, 1922, to Nov. 15, 1936, nonrecording gage, at site about 1,100 ft (335 m) upstream at datum 0.17 ft (0.052 m) higher. Nov. 16, 1936, to Nov. 14, 1937, nonrecording gage, and Nov. 15, 1937, to Sept. 21, 1961, water-stage recorder on center pier of highway bridge at present datum. Sept. 22-27, 1961, nonrecording gage at railroad bridge, 100 ft (30 m) upstream at same datum, Sept. 28, 1961, to Mar. 4, 1964, water-stage recorder on downstream side of left bank pier of highway bridge and wire-weight gage for stages below 7.2 ft (2.2 m) at present datum.

AVERAGE DISCHARGE.--54 years, 1,141 ft^3/s (32.31 m^3/s), 6.89 in/yr (175 mm/yr), 826,700 acre-ft/yr (1091 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 20,300 ft^3/s (575 m^3/s) May 31 (gage height, 19.70 ft or 6.005 m); minimum discharge, 36 ft^3/s (1.02 m^3/s) Oct. 3; minimum gage height, 0.52 ft (0.158 m) Aug. 27, 28.

Period of record: Maximum discharge, 69,100 ft^3/s (1,960 m^3/s) June 24, 1947 (gage height, 34.55 ft or 10.531 m); maximum gage height, 37.02 ft (11.284 m) June 2, 1929 (present site and datum); minimum discharge, 2.2 ft^3/s (0.062 m^3/s) June 3, 4, Oct. 27, 28, 29, 1956; minimum gage height, 0.21 ft (0.064 m) Oct. 17, 1971.

Maximum stage known, about 40 ft (12.2 m) July 8, 1909, from floodmarks.

REMARKS.--Records fair except those for period of ice effect, doubtful or no gage height record, which are poor.

REVISIONS (WATER YEARS).--WSP 786: 1933-34. WSP 1280: 1922.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	12300	90	166	334	1930	960	775	7450	710	81	159
2	43	10400	90	149	312	1310	780	618	2530	490	77	147
3	39	4000	83	144	291	1170	698	553	1590	392	72	114
4	39	3000	69	92	300	690	658	517	1030	344	66	442
5	51	2000	85	108	350	622	960	473	740	308	64	1590
6	85	1000	92	164	500	860	1450	454	601	281	63	2210
7	98	800	144	149	400	490	1240	1380	517	252	61	860
8	96	700	349	168	350	1310	925	1730	440	228	56	430
9	90	600	315	195	300	1380	1060	2290	404	209	53	279
10	81	1000	260	545	280	890	1810	1730	3090	238	51	231
11	79	700	264	3480	262	654	1850	706	8660	202	48	3080
12	66	600	233	830	216	586	1140	511	12400	173	48	8330
13	58	500	190	484	212	457	805	440	7000	164	64	1660
14	54	400	192	571	207	394	740	389	4000	147	77	638
15	53	350	216	607	188	394	995	359	2000	137	90	384
16	61	300	272	499	176	1310	1170	310	890	133	92	312
17	56	250	284	446	171	2850	1060	269	960	128	98	264
18	51	200	183	394	192	4600	4520	238	1640	121	92	224
19	53	150	197	382	207	4810	6680	219	3480	114	79	200
20	59	139	226	330	279	2610	2770	204	2450	112	75	173
21	59	129	200	300	550	1770	1700	198	1310	108	61	159
22	59	124	190	280	5470	1560	1200	262	718	105	57	139
23	59	121	168	270	3300	1200	2330	255	607	108	54	133
24	59	112	161	267	1810	1240	9180	195	417	103	49	119
25	59	108	117	296	830	805	7340	171	1300	105	49	112
26	59	101	85	502	1030	595	2850	678	10300	103	49	105
27	56	92	128	580	1700	571	1810	1060	4920	101	48	96
28	54	85	117	465	1770	2060	1380	658	1620	94	68	94
29	54	83	124	432	---	4920	1170	3770	830	90	79	98
30	64	87	121	401	---	2450	960	15500	580	86	81	96
31	11300	---	128	384	---	1310	---	17300	---	83	112	---
TOTAL	13137	40432	5372	14080	21987	47798	621[illegible]	54202	84474	5969	2104	22878
MEAN	424	1348	173	454	785	1542	2073	1748	2816	193	67.9	763
MAX	11300	12300	349	3480	5470	4920	9180	17300	12400	710	112	8330
MIN	39	83	68	92	171	394	658	171	404	83	48	94
CFSM	.19	.60	.08	.20	.35	.69	.92	.78	1.25	.09	.03	.34
IN.	.22	.67	.09	.23	.36	.79	1.03	.90	1.40	.10	.03	.38
AC-FT	26060	80200	10660	27930	43610	94810	123400	107500	167600	11840	4170	45380

CAL YR 1974 TOTAL 498138 MEAN 1365 MAX 25600 MIN 30 CFSM .61 IN 8.24 AC-FT 988100
WTR YR 1975 TOTAL 374624 MEAN 1026 MAX 17300 MIN 39 CFSM .46 IN 6.19 AC-FT 743100

PEAK DISCHARGE (BASE, 18,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE
5-31	0500	19.70	20,300

06898100 Thomps   iver at Mount Moriah, Mo.

LOCATION.--Lat 40°20'11", long 93°46'02", on line bet en SE¼ sec.13 and NE¼ sec.24, T.64 N., R.26 W., Harrison County, on downstream side of right pier of bridge on U.S. Highway 136, 0.7 mi (1.1 km) upstream from Panther Creek, 1.5 mi (2.4 km) northeast of Mount Moriah, and at mile 43 (69.2 km).

DRAINAGE AREA.--891 mi^2 (2,308 km^2), including Panther Creek.

PERIOD OF RECORD.--September 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 784 ft (238.96 m) above mean sea level (from data furnished by Missouri State Highway Commission).

AVERAGE DISCHARGE.--15 years, 551 ft^3/s (15.6 m^3/s), 8.40 in/yr (213 mm/yr), 399,200 acre-ft/yr (492.21 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 16,200 ft^3/s (459 m^3/s) June 25 (gage height, 15.30 ft or 4.663 m); minimum daily discharge, 20 ft^3/s (0.566 m^3/s) Aug. 23.

Period of record: Maximum discharge, 32,500 ft^3/s (920 m^3/s) June 13, 1967 (gage height, 22.00 ft or 6.706 m), minimum, 6.5 ft^3/s (0.184 m^3/s) Dec. 6, 1968 (gage height, 1.09 ft or 0.332 m), result of ice conditions upstream.

REMARKS.--Records fair except those for winter months and mud in well at low flow, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	1760	59	66	80	384	590	402	1120	375	50	64
2	40	650	56	59	70	261	530	342	610	350	50	57
3	35	324	56	62	70	203	510	306	364	330	50	51
4	30	200	57	69	70	172	486	291	285	300	45	123
5	40	120	60	70	70	200	630	285	253	270	40	473
6	35	90	63	67	80	227	670	397	247	260	40	450
7	30	80	159	67	80	498	610	357	241	240	35	168
8	30	70	145	75	60	318	570	1660	233	220	35	100
9	30	65	141	75	60	276	869	3600	253	200	30	81
10	30	60	137	294	60	238	1890	1330	235	190	30	70
11	30	100	137	442	60	233	1090	650	1260	190	28	123
12	40	150	112	900	60	205	670	470	1690	170	27	1130
13	40	120	108	300	60	180	498	372	2460	140	26	444
14	50	100	100	200	60	187	502	318	1040	155	35	152
15	40	90	200	250	60	261	530	285	550	155	50	105
16	40	80	175	187	60	470	530	259	410	150	70	86
17	30	70	161	208	60	1680	446	235	345	135	50	75
18	30	60	154	175	60	4210	949	219	414	120	40	67
19	30	60	145	107	60	3700	760	205	2620	115	35	64
20	30	60	119	120	60	3600	610	203	3420	115	30	60
21	30	60	107	90	100	3330	482	205	1480	110	25	56
22	30	60	96	100	1000	2540	381	205	670	105	22	54
23	30	57	83	70	900	2140	738	205	601	93	20	49
24	30	57	76	70	500	1240	1980	205	1150	81	21	48
25	30	56	67	120	400	785	1060	205	4970	78	23	45
26	30	52	66	150	300	530	690	208	2120	73	25	44
27	30	54	67	200	250	776	530	208	3420	72	35	43
28	30	52	70	200	315	3600	454	210	2540	70	69	45
29	279	51	64	150	---	2880	498	241	1040	60	104	44
30	303	54	66	120	---	1450	446	3330	550	60	86	44
31	4000	---	70	100	---	735	---	1980	---	55	44	---
TOTAL	5522	4862	3161	5053	5065	37509	21239	19387	36593	5057	1288	4417
MEAN	178	162	102	163	181	1210	708	625	1220	163	41.5	147
MAX	4000	1760	200	900	1000	4210	1990	3600	4970	375	104	1130
MIN	30	51	56	59	60	172	381	203	233	55	20	43
CFSM	.20	.18	.11	.18	.20	1.36	.79	.70	1.37	.18	.05	.16
IN.	.23	.20	.13	.21	.21	1.57	.89	.81	1.53	.21	.05	.18
AC-FT	10950	9640	6270	10020	10050	74400	42130	38450	72580	10030	2550	8760

CAL YR 1974 TOTAL 222604 MEAN 609 MAX 12600 MIN 30 CFSM .68 IN 9.29 AC-FT 441100
WTR YR 1975 TOTAL 149153 MEAN 409 MAX 4970 MIN 20 CFSM .46 IN 6.23 AC-FT 295800

PEAK DISCHARGE (BASE, 8,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-31	0445	10.18	8,220	6-25	0500	15.30	16,200

06899500 Thompson River at Trenton, Mo.

LOCATION.--Lat 40°04'46", long 93°38'39", in NE¼SW¼ sec.18, T.61 N., R.24 W., Grundy County, on right bank at downstream side of bridge on old State Highway 6, 1 mi (1.6 km) west of Trenton, 1.8 mi (2.9 km) downstream from Weldon River, and at mile 26.0 (41.8 km).

DRAINAGE AREA.--1,670 mi² (4,330 km²), approximately.

PERIOD OF RECORD.--June 1921 to September 1923 (published as "near Hickory"), August 1928 to current year. Monthly discharge only for some periods, published in WSP 1310. Gage-height records collected in vicinity 1910-14 and since 1925 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 721.87 ft (220.026 m) above mean sea level. June 25, 1921, to Aug. 26, 1923, nonrecording gage at two sites 12 mi (19.3 km) downstream (by old channel route) at different datums. Aug. 1, 1928, to Sept. 15, 1930, nonrecording gage at present site and datum. Sept. 16, 1930, to May 31, 1945, nonrecording gage at site 1.5 mi (2.4 km) downstream at datum 3.46 ft (1.055 m) lower. June 1, 1945, to Dec. 7, 1959, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--49 years (1921-23, 1928-75), 927 ft³/s (26.3 m³/s), 7.54 in/yr (192 mm/yr), 671,900 acre-ft/yr (828.5 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 12,500 ft³/s (354 m³/s) Oct. 31 (gage height, 12.50 ft or 3.810 m); minimum observed, 36 ft³/s (1.02 m³/s) Aug. 23; minimum observed gage height, 1.98 ft (0.604 m) Dec. 5.

Period of record: Maximum discharge, 95,000 ft³/s (2,690 m³/s) June 6, 1947 (gage height, 25.7 ft or 7.833 m, from floodmark); minimum daily, 1 ft³/s (0.028 m³/s) June 17, 1956.

Maximum stage known, 30.7 ft (9.357 m) July 6, 1909, present site and datum, from information by local residents (discharge, 50,000 ft³/s or 1,420 m³/s, determination by Corps of Engineers, occurred before new channel was dredged).

REMARKS.--Record poor.

REVISIONS (WATER YEARS).--WSP 1116: 1945 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	6050	110	300	250	1800	1200	680	2420	935	78	130
2	58	2460	102	231	200	1280	965	590	1530	755	74	92
3	56	1120	106	225	200	905	845	490	875	615	69	86
4	52	845	77	225	190	665	755	345	515	515	66	123
5	56	395	76	251	180	615	1200	395	465	395	44	617
6	70	251	134	330	180	590	1440	490	369	395	61	1120
7	66	225	155	300	200	1510	1200	1900	261	340	58	465
8	60	175	680	309	200	1535	845	3630	227	324	55	207
9	60	151	590	315	190	1040	1040	5000	207	282	56	136
10	60	141	415	465	180	815	2900	3290	424	288	56	117
11	60	185	372	800	170	756	2300	1440	799	207	56	190
12	64	354	243	700	160	565	1350	965	5460	259	50	786
13	77	276	223	500	160	515	965	755	3030	191	90	1200
14	85	270	221	500	160	515	905	590	1200	187	128	326
15	88	258	1120	500	160	515	1040	490	905	168	92	181
16	79	195	1120	500	150	1300	905	395	640	173	79	131
17	71	179	755	450	150	3320	845	356	540	155	71	113
18	69	168	360	400	160	7140	4780	315	490	135	75	99
19	65	144	348	300	170	5600	3830	306	1960	135	62	92
20	62	155	315	350	250	5000	2100	285	3970	130	55	86
21	60	146	282	250	800	5450	1440	279	2780	127	50	83
22	59	140	235	300	3000	5150	965	255	1120	128	42	77
23	59	137	231	200	2300	4400	3310	241	725	122	40	73
24	55	128	247	250	1120	2420	7140	241	1360	114	41	70
25	55	126	225	250	965	1530	3690	229	7840	102	46	65
26	54	127	247	500	965	875	2000	654	4400	101	57	61
27	54	120	312	450	1280	1620	1360	330	4700	99	53	62
28	58	119	303	400	1360	6350	1120	264	5450	94	58	61
29	61	119	276	350	---	4850	965	315	3030	91	69	74
30	404	123	291	300	---	3160	905	4110	1530	86	133	61
31	8460	---	270	250	---	1620	---	4700	---	86	99	---
TOTAL	10697	15442	10441	11451	15450	73400	54315	34373	59222	7706	2101	6978
MEAN	345	516	337	369	552	2368	1811	1109	1974	249	67.8	233
MAX	8460	6050	1120	800	3000	7140	7140	5000	7840	935	133	1200
MIN	52	119	76	200	150	515	755	229	207	86	40	61
CFSM	.21	.31	.20	.22	.33	1.42	1.08	.66	1.18	.15	.04	.14
IN.	.24	.34	.23	.26	.34	1.64	1.21	.77	1.32	.17	.05	.16
AC-FT	21220	30710	20710	22710	30650	145600	107700	68180	117500	15280	4170	13840

CAL YR 1974 TOTAL 437859 MEAN 1200 MAX 28500 MIN 52 CFSM .72 IN 9.75 AC-FT 868500
WTR YR 1975 TOTAL 301614 MEAN 826 MAX 8460 MIN 40 CFSM .49 IN 6.72 AC-FT 598300

PEAK DISCHARGE (BASE, 15,000 FT³/s).--No peak above base.

06899700 Shoal Creek near Braymer, Mo.

LOCATION.--Lat 39°40'50", long 93°46'05", in NW¼NE¼ sec.13, T.56 N., R.26 W., Caldwell County, at downstream side of left pier of bridge on State Highway O, 1.8 mi (2.9 km) downstream from Panther Creek, 6 mi (9.7 km) north of Braymer, and at mile 26 (41.8 km).

DRAINAGE AREA.--391 mi² (1,013 km²).

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 700 ft (213.4 m) from topographic map. Prior to Nov. 21, 1957, and Apr. 4 to Oct. 9, 1962, nonrecording gage at same site and datum. Nov. 21, 1957, to Apr. 3, 1962, water-stage recorder at site 50 ft (15 m) upstream at same datum.

AVERAGE DISCHARGE.--18 years, 261 ft³/s (7.39 m³/s), 9.06 in/yr (230 mm/yr), 189,100 acre-ft/yr (233.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 5,750 ft³/s (163 m³/s) Apr. 25 (gage height, 22.46 ft or 6.846 m, floodmark); minimum, 0.62 ft³/s (0.018 m³/s) Aug. 12, 13 (gage height, 1.22 ft or 0.372 m).

Period of record: Maximum discharge, 26,000 ft³/s (736 m³/s) from loop rating June 22, 1964 (gage height, 22.00 ft or 6.706 m), result of levee break; maximum gage height, 29.05 ft (8.854 m) June 22, 1964; no flow Oct. 12-14, 1957.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	1060	26	298	126	326	139	150	122	2.8	.87	1.8
2	2.8	1000	31	163	105	259	148	140	69	2.7	.80	1.3
3	2.9	1080	35	114	103	148	241	150	49	2.5	.78	1.2
4	2.5	326	21	89	104	119	278	163	46	2.3	.74	.98
5	2.5	100	36	96	178	118	606	149	38	2.3	.74	1.5
6	5.2	76	38	102	118	118	480	148	38	2.4	.76	1.3
7	4.5	54	63	126	114	124	247	173	30	2.3	.72	14
8	4.2	50	114	178	110	119	173	159	22	2.2	.68	28
9	3.8	40	104	158	105	89	163	153	22	2.2	.68	9.0
10	3.3	100	38	148	92	86	159	116	35	2.2	.68	3.6
11	4.0	90	56	450	55	84	130	96	60	2.1	.68	4.8
12	37	80	120	278	39	119	110	79	80	1.8	.63	156
13	82	90	80	148	37	102	106	71	408	1.9	.69	190
14	134	52	60	188	39	83	100	69	80	1.9	.87	45
15	87	40	223	163	43	92	140	67	50	1.9	.89	17
16	60	35	211	85	42	163	120	60	40	2.1	.89	9.0
17	12	35	134	67	327	350	100	52	50	1.9	1.3	6.6
18	5.5	35	75	55	606	324	90	41	435	1.9	1.2	5.6
19	4.0	37	60	61	420	241	80	39	36	1.8	1.2	4.5
20	2.4	35	55	72	480	189	153	35	16	2.0	1.0	3.6
21	2.6	33	55	57	1220	153	104	30	10	1.7	1.5	3.1
22	2.9	31	60	61	2460	134	95	86	8.6	1.7	1.6	2.8
23	3.0	29	58	47	921	106	1840	217	9.6	1.7	2.0	2.7
24	4.0	25	55	55	241	88	4600	50	7.7	1.7	1.6	2.4
25	6.0	21	53	139	200	75	5550	26	8.7	1.7	2.8	2.2
26	4.0	20	51	272	318	62	1000	272	16	1.6	96	2.3
27	3.1	19	42	189	480	110	526	363	5.2	1.6	26	2.3
28	2.8	19	42	118	350	390	304	200	3.8	1.3	10	2.2
29	2.2	17	49	95	---	435	241	83	3.1	1.2	6.8	2.0
30	375	17	58	87	---	178	178	178	2.9	1.1	8.6	1.9
31	1440	---	163	96	---	139	---	465	---	1.0	2.5	---
TOTAL	2307.6	4618	2264	4253	9454	5089	18190	4073	1789.2	59.3	177.08	527.48
MEAN	74.4	154	73.0	137	338	164	606	131	59.6	1.91	5.71	17.6
MAX	1440	1080	223	450	2460	435	5550	465	435	2.8	96	190
MIN	2.2	17	21	47	37	62	80	26	2.9	1.0	.63	.98
CFSM	.19	.39	.19	.35	.86	.42	1.55	.34	.15	.005	.01	.05
IN.	.22	.44	.22	.40	.90	.48	1.73	.39	.17	.006	.02	.05
AC-FT	4580	9160	4490	8440	18750	10090	36080	8080	3550	118	351	1050

CAL YR 1974 TOTAL 127660.30 MEAN 350 MAX 9000 MIN 2.2 CFSM .90 IN 12.15 AC-FT 253200
WTR YR 1975 TOTAL 52801.66 MEAN 145 MAX 5550 MIN .63 CFSM .37 IN 5.02 AC-FT 104700

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE
4-25	0600	22.46	5,750

06900000 Medicine Creek near Galt, Mo.

LOCATION.--Lat 40°07'45", long 93°21'45", in SW¼NW¼ sec.34, T.62 N., R.22 W., Sullivan County, on left bank 30 ft (9 m) upstream from bridge on State Highway 6, 1.2 mi (1.9 km) east of Galt, 2 mi (3.2 km) upstream from West Medicine Creek, and at mile 32.0 (51.5 km).

DRAINAGE AREA.--225 mi² (583 km²).

PERIOD OF RECORD.--July 1921 to September 1975 (discontinued). Monthly discharge only for some periods, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 767.48 ft (233.928 m) above mean sea level. Prior to Dec. 3, 1934, nonrecording gage at site 150 ft (46 m) downstream at following datums: prior to Oct. 1, 1924, at datum 6.97 ft (2.124 m) higher; Oct. 1, 1924 to Sept. 30, 1926, at datum 4.97 ft (1.515 m) higher; Oct. 1, 1926, to Dec. 2, 1934, at datum 1.97 ft (0.600 m) higher; Dec. 3, 1934, to Apr. 25, 1956, nonrecording gage, and Apr. 26 to Sept. 30, 1956; water-stage recorder at site 30 ft (9 m) downstream at datum 2.00 ft (0.610 m) higher; Oct. 1, 1956, to Apr. 5, 1969, water-stage recorder at site 30 ft (9 m) downstream at present datum.

AVERAGE DISCHARGE.--54 years, 139 ft³/s (3.94 m³/s), 8.39 in/yr (213 mm/yr), 100,700 acre-ft/yr (124 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,790 ft³/s (107 m³/s) June 26 (gage height, 8.63 ft or 2.630 m); minimum observed, 5.2 ft³/s (0.147 m³/s) Aug. 12; minimum observed gage height, 0.02 ft (0.006 m) Sept. 24, 26, 27, 30.

Period of record: Maximum discharge, 24,200 ft³/s (685 m³/s) June 6, 1947 (gage height, 20.9 ft or 6.37 m, present datum, from floodmark); no flow at times in 1934, 1936-37, 1940, 1954, 1956.

Flood of July 1909 reached a discharge of about 8,000 ft³/s (227 m³/s), determined by Corps of Engineers.

REMARKS.--Records poor.

REVISIONS (WATER YEARS).--WSP 1340: 1926. WSP 1730: 1948(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	1840	31	77	45	178	106	79	194	47	9.0	24
2	9.8	301	24	65	45	161	91	66	123	37	8.1	16
3	9.8	142	30	50	48	118	81	61	84	31	9.0	14
4	10	109	32	40	58	87	106	57	97	27	8.1	52
5	13	79	31	35	62	76	198	52	65	24	7.3	89
6	19	51	45	60	42	78	203	252	47	22	8.1	127
7	32	50	177	80	36	190	150	415	38	19	6.5	75
8	19	43	107	60	35	240	104	808	33	18	6.0	50
9	13	40	62	50	35	160	233	336	29	16	5.8	25
10	12	42	120	50	35	115	279	138	29	15	5.8	22
11	11	167	81	40	35	92	150	101	32	14	5.5	28
12	15	152	68	35	37	82	111	85	125	13	5.2	18
13	26	92	57	35	33	77	87	70	78	12	23	84
14	83	65	52	35	35	84	87	60	46	12	20	25
15	47	49	119	78	34	113	93	54	36	10	15	21
16	31	47	188	50	32	292	91	48	31	11	14	15
17	22	43	129	43	73	332	82	44	29	11	13	13
18	16	42	96	38	107	256	1110	41	27	9.8	11	12
19	13	41	75	35	91	208	520	39	27	8.9	11	10
20	12	39	78	35	96	178	214	38	26	9.0	10	9.8
21	11	33	74	36	427	155	135	36	22	11	10	9.5
22	11	32	116	36	873	142	105	33	21	9.0	9.8	9.0
23	11	32	50	34	402	160	855	32	19	9.0	9.0	7.3
24	11	29	52	37	200	121	2120	55	138	9.0	9.0	6.5
25	11	27	49	132	146	109	757	38	757	11	8.1	7.3
26	12	26	35	131	92	73	209	73	2260	10	5.8	6.5
27	13	25	47	99	106	160	148	55	278	11	8.1	6.5
28	14	25	44	71	136	1060	191	42	212	12	7.3	7.3
29	13	25	45	60	---	363	153	84	90	11	23	7.3
30	113	34	47	50	---	166	104	1660	57	10	16	6.5
31	876	---	52	47	---	127	---	819	---	10	36	---
TOTAL	1519.6	3732	2213	1724	3396	5753	8875	5771	5050	479.7	343.5	795.5
MEAN	49.0	124	71.4	55.6	121	186	296	186	168	15.5	11.1	26.5
MAX	876	1840	188	132	873	1060	2120	1660	2260	47	36	127
MIN	9.8	25	24	34	32	73	81	32	19	8.9	5.2	6.5
CFSM	.22	.55	.32	.25	.54	.83	1.32	.83	.75	.07	.05	.12
IN.	.25	.62	.37	.29	.56	.95	1.47	.95	.83	.08	.06	.13
AC-FT	3010	7400	4390	3420	6740	11410	17600	11450	10020	951	581	1580

CAL YR 1974 TOTAL 47677.7 MEAN 131 MAX 3180 MIN 8.2 CFSM .58 IN 7.88 AC-FT 94570
WTR YR 1975 TOTAL 39652.3 MEAN 109 MAX 2260 MIN 5.2 CFSM .48 IN 6.56 AC-FT 78650

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-23	1900	8.49	3,660	6-26	0700	8.63	3,790

06902000 Grand River near Sumner, Mo.

LOCATION.--Lat 39°38'21", long 93°16'22", in NE¼ sec.29, T.56 N., R.21 W., Livingston County, near right bank on downstream side of pier of bridge on State Highway 139, 240 ft (73 m) downstream from Chicago, Burlington & Quincy Railroad bridge, 2 mi (3.2 km) southwest of Sumner, 2.5 mi (4.0 km) downstream from Locust Creek, and at mile 41.0 (66.0 km).

DRAINAGE AREA.--6,880 mi² (17,800 km²), approximately.

PERIOD OF RECORD.--October 1923 to current year. Prior to April 1924 monthly discharge only, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 631.18 ft (192.384 m) above mean sea level. Prior to July 11, 1926, nonrecording gage at site 200 ft (61 m) upstream at same datum. July 11, 1926 to July 9, 1939, nonrecording gage at same site and datum. July 10, 1939 to Aug. 8, 1952, water-stage recorder at site 200 ft (61 m) upstream at same datum. Aug. 9, 1952 to Nov. 12, 1953, nonrecording gage at site 120 ft (37 m) upstream and at same datum. Nov. 13, 1953 to July 6, 1964, water-stage recorder and nonrecording gage for stages below 8.3 ft (2.53 m) at site 120 ft (37 m) upstream and at same datum. July 7, 1964 to May 26, 1965, nonrecording gage at present site and datum. Auxiliary water-stage recorder at site 3.2 mi (5.1 km) downstream from base gage at datum 631.30 ft (192.420 m) above mean sea level. Mar. 15, 1939 to Aug. 4, 1942, auxiliary nonrecording gage at various sites. Aug. 5, 1942 to Dec. 14, 1956, auxiliary nonrecording gage at present site.

AVERAGE DISCHARGE.--52 years, 3,796 ft³/s (107.5 m³/s), 7.49 in/yr (190 mm/yr), 2,750,000 acre-ft/yr (3,391 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 31,100 ft³/s (881 m³/s) Apr. 25 (gage height, 31.85 ft or 9.708 m); minimum, 138 ft³/s (3.91 m³/s) Aug. 25 (gage height, 6.88 ft or 2.097 m).

Period of record: Maximum discharge, 180,000 ft³/s (5,100 m³/s) June 7, 8, 1947 (gage height, 39.5 ft or 12.04 m, from floodmark); minimum observed, 10 ft³/s (0.28 m³/s) Aug. 12, 1934; minimum gage height, 2.19 ft (0.668 m) Aug. 22, 23, 31, Sept. 1, 1936.

Flood of July 9, 1909, reached a stage of 36.7 ft (11.19 m) from floodmark.

REMARKS.--Records fair. Records of chemical analyses for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	189	20300	475	1410	1440	5220	3780	3410	21400	2250	261	355
2	171	15900	503	1380	1360	5380	3340	2850	12900	1950	261	363
3	158	7560	459	1060	1310	4150	3340	2430	5780	1590	252	334
4	158	5780	427	898	1310	2780	3410	2190	3550	1340	243	270
5	155	3620	427	762	1710	2310	3620	1950	2570	1210	228	582
6	165	2250	471	852	1280	2370	4680	1770	2130	1080	228	2640
7	186	1650	628	1080	1360	2310	4300	4410	1830	988	219	3550
8	225	1310	898	1260	1950	3270	3340	8400	1500	920	204	1950
9	225	1110	1710	1340	1900	4080	2710	11500	1360	852	192	1180
10	207	1010	1360	1280	1830	3200	3410	9680	1140	785	180	808
11	201	1140	1080	1770	1590	2430	5220	5860	3200	718	192	672
12	234	1440	1210	4980	1410	2250	4220	3410	12100	718	189	4300
13	451	1770	1110	2310	1260	2070	2920	2500	12200	628	213	6820
14	1010	1360	988	1590	1180	1830	2310	2070	6820	582	267	3060
15	942	1060	1180	1950	1160	1710	2310	1770	4080	546	296	1590
16	515	898	2070	2640	1160	2250	2570	1650	2500	503	330	1140
17	415	830	2500	2920	1500	4680	2570	1500	1890	483	285	830
18	327	762	1650	2570	2000	9900	4550	1380	1710	451	231	650
19	279	740	1110	2000	2500	11800	15200	1260	2310	439	210	546
20	246	695	988	1800	2710	9790	11500	1160	4900	407	204	459
21	213	650	1140	1700	4450	7560	6340	1060	5300	399	183	399
22	192	628	1040	1600	14700	6580	3850	1010	3550	379	168	355
23	183	605	920	1500	14900	5700	6000	1010	2070	395	155	327
24	180	582	875	1400	7470	5220	25700	1010	1530	367	145	296
25	177	542	785	1340	3620	3920	31100	920	4110	383	158	261
26	165	515	650	1590	3200	2850	25700	942	11500	324	467	240
27	162	499	605	2370	3700	2310	17300	3270	14600	320	415	219
28	160	499	695	2190	4520	6940	8910	2640	8200	296	249	210
29	160	467	718	1770	---	13500	5780	2570	6100	288	219	210
30	160	467	740	1530	---	10100	4450	9850	3480	279	299	219
31	4840	---	875	1500	---	5780	---	22700	---	264	341	---
TOTAL	13051	76639	30287	54342	88480	154240	224430	118132	166310	22134	7484	34835
MEAN	421	2555	977	1753	3160	4975	7481	3811	5544	714	241	1161
MAX	4840	20300	2500	4980	14900	13500	31100	22700	21400	2250	467	6820
MIN	155	467	427	762	1160	1710	2310	920	1140	264	145	210
CFSM	.06	.37	.14	.25	.46	.72	1.09	.55	.81	.10	.04	.17
IN.	.07	.41	.16	.29	.48	.83	1.21	.64	.90	.12	.04	.19
AC-FT	25890	152000	60070	107800	175500	305900	445200	234300	329900	43900	14840	69100

CAL YR 1974 TOTAL 1421418 MEAN 3894 MAX 49700 MIN 155 CFSM .57 IN 7.69 AC-FT 2819000
WTR YR 1975 TOTAL 990364 MEAN 2713 MAX 31100 MIN 145 CFSM .39 IN 5.35 AC-FT 1964000

PEAK DISCHARGE (BASE, 38,000 FT³/S).--No peak above base.

06902200 West Yellow Creek near Brookfield, Mo.

LOCATION.--Lat 39°50'40", long 93°01'36", in SE¼NE¼ sec.16, T.58 N., R.19 W., Linn County, on right bank at right downstream pier of county highway bridge, 1.5 mi (2.4 km) downstream from Bear Creek, and 3.5 mi (5.6 km) northeast of Brookfield.

DRAINAGE AREA.--135 mi² (3,430 km²).

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 733.64 ft (223.613 m) above mean sa level.

AVERAGE DISCHARGE.--16 years, 109 ft³/s (3.09 m³/s), 10.97 in/yr (279 mm/yr), 78,970 acre-ft/yr (97.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,200 ft³/s (90.6 m³/s) Apr. 24 (gage height, 13.68 ft or 4.170 m); no flow on many days.

Period of record: Maximum discharge, 7,400 ft³/s (210 m³/s) July 9, 1969 (gage height, 15.50 ft or 4.724 m); no flow at times in most years.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	28	4.3	60	24	188	44	34	483	3.3	0	.80
2	0	73	4.8	30	26	133	79	30	60	2.7	0	.80
3	0	91	4.2	25	30	66	96	28	36	2.4	0	.70
4	0	47	3.9	25	45	45	153	24	31	2.4	0	.60
5	0	14	3.8	20	104	62	138	22	23	2.3	0	3.8
6	.10	7.3	7.5	20	91	104	143	187	18	2.5	0	3
7	.10	7.3	30	20	46	104	84	950	14	2.4	0	
8	.10	5.7	107	25	26	163	42	2500	11	2.3	0	[illegible]
9	0	4.2	73	25	18	88	38	615	10	2.0	0	.60
10	0	4.8	33	25	17	45	80	101	13	1.5	0	.10
11	0	25	16	30	16	58	64	52	13	1.3	0	0
12	0	21	14	20	16	48	31	48	12	1.2	0	0
13	.20	18	10	16	16	45	21	44	10	1.0	0	0
14	.60	16	10	16	15	52	18	32	9.5	.90	0	0
15	.40	10	74	16	17	81	18	30	9.2	.70	.10	0
16	.30	6.4	60	12	36	180	18	24	8.9	.50	0	0
17	.30	4.5	37	11	304	203	18	21	8.6	.30	0	0
18	.40	4.5	29	11	272	158	48	17	8.0	.20	.60	0
19	.30	4.3	28	12	193	119	574	15	6.8	.20	.60	0
20	.30	4.2	24	13	188	92	178	14	6.8	.10	.50	0
21	.20	4.2	20	13	561	72	46	13	6.4	0	.60	0
22	.10	3.8	15	13	930	55	24	14	5.9	0	.50	0
23	.10	4.0	16	12	548	42	827	14	5.5	0	.40	0
24	.10	3.8	18	46	124	40	3000	12	5.4	0	.30	0
25	.20	3.8	15	128	114	37	1090	11	5.2	0	.40	0
26	.20	3.5	13	81	119	31	183	31	8.2	0	.50	0
27	.20	3.5	15	78	119	58	82	64	27	0	.40	0
28	.20	3.8	16	39	143	560	60	107	13	0	.80	0
29	.30	3.8	16	31	---	496	48	100	7.1	0	1.0	0
30	.40	4.2	18	29	---	133	39	690	6.4	0	.90	0
31	3.0	---	50	28	---	72	---	1140	---	0	.90	---
TOTAL	8.10	434.6	785.5	930	4158	3630	7284	6984	881.9	30.20	8.50	54.80
MEAN	.26	14.5	25.3	30.0	149	117	243	225	29.4	.97	.27	1.83
MAX	3.0	91	107	128	930	560	3000	2500	483	3.3	1.0	37
MIN	0	3.5	3.8	11	15	31	18	11	5.2	0	0	0
CFSM	.002	.11	.19	.22	1.10	.87	1.80	1.67	.22	.007	.002	.01
IN.	.002	.12	.22	.26	1.15	1.00	2.01	1.92	.24	.008	.002	.02
AC-FT	16	862	1560	1840	8250	7220	14450	13850	1750	60	17	109

CAL YR 1974 TOTAL 45686.00 MEAN 125 MAX 4820 MIN 0 CFSM .93 IN 12.59 AC-FT 90620
WTR YR 1975 TOTAL 25197.60 MEAN 69.0 MAX 3000 MIN 0 CFSM .51 IN 6.94 AC-FT 49980

PEAK DISCHARGE (BASE, 1,200 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-24	1000	13.68	3,200	5-31	0100	12.58	1,200
5-8	1730	13.61	3,020				

06904050 Chariton River at Livonia, Mo.

LOCATION.--Lat 40°28'45", long 92°40'48", in SW¼NW¼ sec.34, T.66 N., R.16 W., Schuyler County, on left bank 10 ft (3.0 m) downstream from bridge on U.S. Highway 136, 1 mi (1.6 km) upstream from Shoal Creek, and 0.5 mi (0.8 km) east of Livonia.

DRAINAGE AREA.--870 mi² (2,250 km²), approximately.

PERIOD OF RECORD.--May 1974 to current year. Occasional discharge measurements since October 1962.

GAGE.--Water-stage recorder. Datum of gage is 770.00 ft (234.696 m) above mean sea level.

EXTREMES.--May to September 1974: Maximum discharge during period, 4,250 ft³/s (120 m³/s) July 4 (gage height, 24.26 ft or 7.394 m); minimum, 24 ft³/s (0.680 m³/s) Sept. 24, 25, 26, 27, 28 (gage height, 4.75 ft or 1.448 m).

Water year 1975: Maximum discharge, 3,240 ft³/s (91.8 m³/s) Apr. 23 (gage height, 18.56 ft or 5.657 m); minimum discharge, 22 ft³/s (0.623 m³/s) Oct. 2, 3, 4, 5; minimum gage height, 4.73 ft (1.442 m) Oct. 3, 4, 5.

REMARKS.--Records fair. Flow mostly regulated by Rathbun Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								280	2000	1320	123	39
2								260	1500	1320	111	40
3								250	1200	1510	88	43
4								260	1000	3840	56	56
5								300	1200	4050	46	47
6								400	1500	3740	40	43
7								300	2000	3090	37	41
8								80	2600	2330	42	39
9								72	2000	1940	87	37
10								400	1500	1780	123	35
11								450	1300	1530	119	31
12								500	1200	1220	110	112
13								400	1300	1170	605	336
14								380	1500	1150	193	253
15								370	2400	1130	113	165
16								371	2000	1120	96	82
17								370	1500	1110	92	56
18								1000	1300	1100	71	46
19								1300	1300	1080	61	39
20								1000	1900	1070	55	33
21								800	1580	1070	53	30
22								600	1470	1060	92	27
23								500	1410	1060	73	26
24								400	1400	1050	55	25
25								500	1390	1040	47	24
26								600	1370	1040	45	24
27								1000	1360	1040	52	24
28								1300	1350	1030	55	29
29								1500	1340	1030	48	28
30								2000	1340	775	45	26
31								2500	---	213	40	---
TOTAL								20443	46210	47008	2878	1816
MEAN								659	1540	1516	92.8	60.5
MAX								2500	2600	4050	605	336
MIN								72	1000	213	37	24
AC-FT								40550	91660	93240	5710	3600

06904050 Chariton River at Livonia, Mo.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	415	50	197	45	142	880	1010	500	848	30	38
2	22	575	200	165	40	147	1380	972	300	848	28	37
3	22	369	400	148	40	130	1320	982	200	839	28	31
4	22	200	800	211	40	120	1340	953	180	827	27	31
5	23	127	1000	179	50	95	1450	929	170	836	26	140
6	28	97	1200	195	40	92	1520	944	160	765	26	167
7	38	78	1100	182	40	253	1480	1180	150	791	26	144
8	44	68	1000	167	40	415	1420	2200	170	803	25	92
9	34	57	950	140	40	341	1560	980	200	818	25	82
10	35	67	900	120	40	233	1350	660	300	824	25	69
11	30	161	850	110	40	226	1020	800	250	820	25	144
12	29	240	850	110	40	150	1270	850	190	816	26	541
13	52	234	850	110	40	144	1350	800	200	813	30	305
14	73	165	850	110	40	145	1340	500	240	812	43	121
15	126	113	900	110	40	171	1350	292	250	717	33	68
16	132	89	1000	110	40	421	1340	184	240	477	28	53
17	80	76	900	100	61	1010	1340	132	230	457	28	51
18	52	71	850	90	94	1070	2120	114	224	455	31	44
19	38	67	800	90	138	704	1370	112	258	434	31	41
20	33	63	752	80	161	535	821	106	286	191	26	40
21	30	57	314	80	387	560	580	180	236	96	25	38
22	25	55	164	70	1390	793	500	210	218	85	24	36
23	24	55	154	60	1260	831	1450	190	219	89	24	35
24	23	50	154	60	590	799	2520	170	365	83	23	35
25	24	47	161	80	380	697	1580	150	814	58	68	34
26	24	44	161	90	292	652	898	250	1910	38	54	33
27	24	42	165	80	230	917	618	200	800	36	46	35
28	25	41	167	70	170	1700	592	300	732	34	117	36
29	25	45	148	50	---	1500	867	700	905	32	150	39
30	120	55	143	45	---	994	1010	2200	630	31	125	37
31	343	---	151	45	---	701	---	1000	---	31	71	---
TOTAL	1624	3801	18084	3454	5832	16950	37564	20250	11527	14620	1294	2597
MEAN	52.4	127	583	111	208	547	1252	653	384	472	41.7	86.6
MAX	343	575	1200	211	1390	1700	2520	2200	1910	848	150	541
MIN	22	41	50	45	40	92	500	106	150	31	23	31
AC-FT	3220	7540	35870	6850	11570	33620	74510	40170	22860	29000	2570	5150

WTR YR 1975 TOTAL 137597 MEAN 377 MAX 2520 MIN 22 AC-FT 272900

06904500 Chariton River at Novinger, Mo.

LOCATION.--Lat 40°14'05", long 92°41'14", on south line of SE¼NE¼ sec.28, T.63 N., R.16 W., Adair County, on right bank at the downstream side of center pier on bridge on State Highway 6, 0.6 mi (1.0 km) east of Novinger, 1 mi (1.6 km) downstream from Rye Creek, 2 mi (3.2 km) upstream from Spring Creek, and at mile 73.1 (117.6 km).

DRAINAGE AREA.--1,370 mi² (3,550 km²), approximately.

PERIOD OF RECORD.--October 1930 to September 1952. October 1954 to current year. Prior to February 1931 monthly discharge only, published in WSP 1310.

GAGE.--Water-stage recorder. Datum of gage is 737.65 ft (224.836 m) above mean sea level. Prior to Dec. 20, 1939, nonrecording gage at bridge over old channel, 500 ft (152 m) east, at same datum. Dec. 20, 1939, to Sept. 30, 1952, and Oct. 1. 1954, to Aug. 1, 1956, water-stage recorder, supplemented by nonrecording gage, at same site and datum. Aug. 2, 1956, to May 16, 1957, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--43 years, 760 ft³/s (21.52 m³/s), 7.53 in/yr (191 mm/yr), 550,600 acre-ft/yr (679 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 10,300 ft³/s (292 m³/s) Apr. 18 (gage height, 18.35 ft or 5.593 m); minimum observed, 40 ft³/s (1.13 m³/s) Oct. 4 (gage height, 1.05 ft or 0.320 m).
Period of record: Maximum discharge, 22,900 ft³/s (649 m³/s) June 7, 13, 1947 (gage height, 28.50 ft or 8.687 m); minimum, 0.1 ft³/s (0.003 m³/s) Aug. 31, Sept. 1, 1936.
Maximum stage known, 28.6 ft (8.72 m) in June 1917.

REMARKS.--Records poor. Flow partly regulated by Rathbun Lake.

REVISIONS (WATER YEARS).--WSP 896: 1939. WSP 1116: 1932(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	1150	125	600	80	725	1100	1300	900	850	70	155
2	47	850	109	350	80	600	1200	1250	750	975	69	105
3	43	1150	152	338	80	510	1650	1130	530	950	67	73
4	40	700	680	350	100	462	1700	1120	382	950	63	76
5	42	434	1150	370	140	422	2200	1100	366	925	62	128
6	50	298	1400	410	194	482	2300	1500	322	925	55	394
7	55	176	2500	398	206	1100	2150	1800	262	850	56	314
8	55	149	1850	414	214	1450	1900	6290	278	850	61	226
9	55	146	1300	462	210	1000	2300	2250	450	850	55	166
10	55	214	1180	400	214	700	2000	1150	498	850	55	102
11	50	875	1080	300	202	800	1400	1300	410	850	56	86
12	50	725	975	260	194	510	1600	1350	342	850	55	383
13	94	498	950	200	176	502	1650	1100	354	850	55	625
14	202	458	925	180	194	462	1700	975	414	850	97	206
15	149	338	1220	159	190	600	1750	750	410	825	172	111
16	242	218	1300	150	186	1100	1700	430	410	575	76	69
17	121	180	1100	140	214	2350	1700	382	394	510	61	63
18	92	146	950	130	202	2550	6710	350	386	498	58	58
19	81	123	925	120	338	2000	4200	298	390	474	58	53
20	67	119	925	110	374	1450	1650	278	418	386	58	53
21	60	117	600	100	2400	1450	1120	370	356	214	53	53
22	53	109	330	90	4080	1450	875	358	318	115	53	49
23	50	105	326	80	2500	1400	4480	350	494	113	50	48
24	50	102	362	90	1300	1150	8260	334	1000	105	50	46
25	50	92	298	120	875	1000	3510	318	2450	103	49	45
26	50	96	282	160	825	950	1750	575	3820	102	50	46
27	50	92	310	120	775	1550	1400	478	1950	91	70	46
28	50	91	314	110	600	4340	1250	850	1120	86	374	46
29	50	97	294	100	---	2750	1300	600	1400	81	550	60
30	305	180	290	90	---	1650	1350	5090	1120	73	430	50
31	2450	---	454	80	---	1250	---	1900	---	73	258	---
TOTAL	4915	10026	24636	6981	17143	38515	67055	37326	23294	16799	3344	3933
MEAN	159	334	795	225	612	1242	2262	1204	776	542	108	131
MAX	2450	1150	2500	600	4080	4340	8260	6290	3820	975	550	625
MIN	40	91	109	80	80	422	875	278	262	73	49	45
CFSM	.12	.24	.58	.16	.45	.91	1.65	.88	.57	.40	.08	.10
IN.	.13	.27	.67	.19	.47	1.05	1.84	1.01	.63	.46	.09	.11
AC-FT	9750	19890	48870	13850	34000	76390	134600	74040	46200	33320	6630	7800

CAL YR 1974 TOTAL 422820 MEAN 1158 MAX 12000 MIN 40 CFSM .85 IN 11.48 AC-FT 838700
WTR YR 1975 TOTAL 254767 MEAN 698 MAX 8260 MIN 40 CFSM .51 IN 6.92 AC-FT 505300

PEAK DISCHARGE (BASE, 6,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-18	1830	18.35	10,300	5-8	0700	16.15	8,500
4-23	0630	17.90	9,970	5-30	1400	15.70	8,180

06905500 Chariton River near Prairie Hill, Mo.

LOCATION.--Lat 39°32'25", long 92°47'23", in NW¼SW¼ sec.26, T.55 N., R.17 W., Chariton County, on right bank on downstream side of road at bridge on State Highway 129, 3.2 mi (5.1 km) northwest of Prairie Hill, 13.5 mi (21.7 km) upstream from Puzzle Creek, and at mile 19.6 (31.5 km).

DRAINAGE AREA.--1,870 mi² (4,840 km²), approximately.

PERIOD OF RECORD.--October 1928 to current year. Prior to Oct. 1, 1953, published as "near Keytesville". Prior to May 1929, monthly discharge only, published in WSP 1309.

GAGE.--Water-stage recorder. Datum of gage is 632.05 ft (192.649 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1953, nonrecording gage at site 8.2 mi (13.2 km) downstream at datum 13.68 ft (4.170 m) lower. Oct. 1, 1953, to July 2, 1958, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--47 years, 1,144 ft³/s (32.40 m³/s), 8.30 in/yr (211 mm/yr), 828,800 acre-ft/yr (1,022 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 20,800 ft³/s (589 m³/s) Apr. 24 (gage height, 18.76 ft or 5.718 m); minimum, 48 ft³/s (1.36 m³/s) Oct. 5; minimum gage height observed, 1.68 ft (0.512 m) Aug. 15.
Period of record: Maximum discharge, 31,900 ft³/s (903 m³/s) Apr. 23, 1973 (gage height, 21.96 ft or 6.693 m); maximum gage height, 25.3 ft (7.71 m), from floodmark, at site and datum then in use, June 8, 9, 1947; minimum, 4.6 ft³/s (0.13 m³/s) Aug. 7, 9, 10, 1934.

REMARKS.--Records fair. Flow partly regulated by Rathbun Lake. Records of chemical analyses for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	2580	180	1060	190	1400	1590	1900	2920	1040	110	366
2	87	1150	163	775	180	1280	2160	1830	1490	706	110	218
3	66	2270	200	542	180	903	2680	1720	1020	986	100	182
4	56	1920	600	499	200	759	2540	1630	807	1000	100	136
5	52	862	800	418	300	818	2420	1580	756	980	100	188
6	56	532	1050	481	300	1090	2810	1810	615	976	98	197
7	66	376	1940	568	600	1060	2640	5870	477	1050	100	498
8	66	294	2940	551	600	1550	2320	11400	424	841	100	383
9	66	265	1820	562	600	1560	2160	7850	398	929	100	300
10	80	366	1260	560	600	1160	2700	2860	494	917	90	223
11	82	745	1200	500	600	973	2550	2000	670	915	90	219
12	163	920	1150	460	600	957	1710	1600	536	905	90	177
13	448	640	1120	420	600	902	1750	1500	448	806	85	365
14	424	536	1130	380	600	850	1840	1120	376	867	100	652
15	290	452	1530	340	600	895	1840	1000	372	890	120	608
16	321	353	1530	300	500	1120	1840	850	465	872	229	256
17	278	296	1410	270	610	1850	1840	700	460	659	158	200
18	238	275	1150	250	700	3060	3030	600	456	521	110	180
19	178	256	1020	230	800	3010	9710	550	420	502	100	152
20	149	226	1330	220	1000	2210	4230	500	400	494	90	139
21	121	215	995	210	2140	1590	2260	600	420	446	129	123
22	98	187	669	200	5070	1300	1570	900	420	275	110	113
23	90	141	607	190	4490	1650	5970	1060	386	172	100	100
24	82	172	510	180	2750	1460	19000	850	564	141	90	90
25	80	160	606	220	1430	1330	12800	700	3210	132	116	80
26	70	168	340	300	1180	1100	5970	600	3270	127	116	80
27	70	143	317	250	1170	1420	2870	532	4380	126	236	80
28	75	143	368	230	1160	6340	2210	939	1910	118	245	80
29	73	137	409	210	---	6660	2090	1860	1170	115	206	100
30	75	120	390	200	---	3660	2000	6490	1250	110	608	90
31	175	---	1090	190	---	2180	---	8970	---	110	661	---
TOTAL	4261	16936	29113	11744	27960	55857	110190	72421	30996	18963	4586	6349
MEAN	137	565	939	379	999	1802	3673	2336	1033	612	148	212
MAX	448	2580	2940	1060	5070	6660	19000	11400	4380	1050	661	652
MIN	52	120	160	180	180	759	1570	500	372	110	85	80
CFSM	.07	.30	.50	.20	.53	.96	1.96	1.25	.55	.33	.08	.11
IN.	.08	.34	.58	.23	.56	1.11	2.19	1.44	.62	.38	.09	.13
AC-FT	8450	33590	57750	23290	55460	110800	218600	143600	61480	37610	9090	12590

CAL YR 1974 TOTAL 619367 MEAN 1696 MAX 19900 MIN 52 CFSM .91 IN 12.30 AC-FT 1227000
WTR YR 1975 TOTAL 389374 MEAN 1067 MAX 19000 MIN 52 CFSM .57 IN 7.75 AC-FT 772300

PEAK DISCHARGE (BASE, 9,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-19	0945	13.98	11,300	5-8	1730	15.78	14,300
4-24	1415	18.76	20,800	5-30	2400	14.84	12,800

06906000 Mussel Fork Near Musselfork, Mo.

LOCATION.--Lat 39°31'26", long 92°56'50", in SW¼SW¼SE¼ sec.32, T.55 N., R.18 W., Chariton County, on left bank at downstream side of pier of bridge on State Highway 5, 4.5 mi (7.2 km) southwest of Musselfork, and 1.5 mi (2.4 km) upstream from Long Branch.

DRAINAGE AREA.--267 mi² (692 km²).

PERIOD OF RECORD.--October 1948 to December 1951, October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 639.25 ft (194.843 m) above mean sea level. Prior to Jan. 1, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--16 years (1948-51, 1962-75), 229 ft³/s (6.485 m³/s), 11.65 in/yr (296 mm/yr), 165,900 acre-ft/yr (204.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7,200 ft³/s (204 m³/s) Apr. 24 (gage height, 20.18 ft or 6.151 m), no flow Aug. 16-26, 27-29.
Period of record: Maximum discharge, 23,100 ft³/s (654 m³/s) Apr. 22, 1973 (gage height, 22.11 ft or 6.739 m), no flow, Sept. 29 to Oct. 16, Oct. 30 to Nov. 2, 1963, Aug. 16-26, 27-29, 1975.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	7.4	22	500	241	303	197	143	1160	16	3.7	4.6
2	1.1	9.8	24	358	177	325	498	106	240	12	3.7	3.8
3	1.0	291	22	177	201	283	1030	85	132	9.6	3.7	5.4
4	2.9	650	20	125	192	181	590	75	79	8.2	3.6	6.0
5	4.0	302	21	112	295	141	491	70	63	7.5	3.5	6.1
6	4.4	103	32	126	206	158	365	63	64	7.2	3.2	5.1
7	4.5	51	220	129	150	185	259	171	44	7.1	2.9	4.3
8	4.1	35	459	123	100	205	174	1710	34	6.4	2.7	8.1
9	4.8	28	255	135	70	220	155	1960	29	5.8	2.2	14
10	5.5	45	149	116	50	191	152	1320	26	5.5	2.1	13
11	5.8	272	92	100	45	145	153	254	25	5.3	2.1	28
12	11	254	121	80	40	133	132	151	32	5.0	1.4	7.1
13	24	152	147	60	35	144	99	111	32	4.9	.50	5.1
14	38	76	121	40	30	152	86	90	27	4.7	.50	4.4
15	15	68	318	35	30	158	86	78	24	4.5	.20	4.1
16	7.2	31	364	30	30	170	87	62	21	4.5	0	3.5
17	4.3	32	205	25	100	302	81	52	19	4.5	0	3.2
18	3.7	30	102	20	500	363	77	45	18	4.6	0	3.1
19	3.6	29	70	20	400	342	203	40	17	4.6	0	2.9
20	3.8	28	67	20	300	257	504	36	17	4.6	0	2.8
21	3.9	26	58	20	400	222	180	34	15	4.5	0	2.4
22	3.6	25	56	20	1000	160	93	35	14	4.5	0	3.1
23	3.6	25	48	20	1570	136	1410	36	14	4.5	0	2.7
24	4.3	24	67	30	589	97	5570	34	21	4.5	0	2.1
25	4.6	22	67	208	268	78	5220	33	17	4.3	0	2.0
26	5.0	21	58	473	269	63	2360	30	21	4.1	.05	1.5
27	5.3	21	56	318	269	108	625	35	19	4.1	.71	1.6
28	5.6	20	56	193	286	886	387	52	23	3.8	0	1.8
29	6.0	20	65	163	---	1360	366	568	22	3.6	.01	2.0
30	6.4	20	72	123	---	713	233	773	21	3.6	6.8	1.9
31	6.9	---	404	322	---	312	---	1700	---	3.5	7.2	---
TOTAL	205.0	2698.2	3818	4291	7841	8489	21850	9948	2291	177.5	51.77	155.5
MEAN	6.61	89.9	123	138	280	274	728	321	76.4	5.73	1.67	5.18
MAX	38	650	459	500	1570	1360	5570	1960	1160	16	7.2	28
MIN	1.0	7.4	20	20	30	63	77	30	14	3.5	0	1.5
CFSM	.02	.34	.46	.52	1.05	1.03	2.73	1.20	.29	.02	.006	.02
IN.	.03	.38	.53	.60	1.09	1.18	3.04	1.39	.32	.02	.007	.02
AC-FT	407	5350	7570	8510	15550	16840	43340	19730	4540	352	103	308

CAL YR 1974 TOTAL 84395.60 MEAN 231 MAX 3090 MIN 1.0 CFSM .87 IN 11.76 AC-FT 167400
WTR YR 1975 TOTAL 61813.97 MEAN 169 MAX 5570 MIN 0 CFSM .63 IN 8.61 AC-FT 122600

PEAK DISCHARGE (BASE, 1,200 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-23	0245	15.89	1,660	4-24	2115	20.18	7,200
3-29	0515	14.03	1,460	5-9	2300	17.01	1,910
4-3	0345	13.92	1,250	5-31	2145	16.42	1,770

06906200 East Fork Little Chariton River near Macon, Mo.

LOCATION.--Lat 39°44'47", long 92°31'05", NW¼NW¼NW¼ sec.18, T.57 N., R.14 W., Macon County, on downstream end of right abutment of bridge on U.S. Highway 36, 2 mi (3.2 km) downstream from Long Branch, and 3 mi (4.8 km) west of Macon.

DRAINAGE AREA.--112 mi² (290 km²).

PERIOD OF RECORD.--September 1971 to current year. Partial-record station since May 1970.

GAGE.--Water-stage recorder. Datum of gage is 761.43 ft (225.988 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,970 ft³/s (55.8 m³/s) Apr. 24 (gage height, 16.13 ft or 4.916 m); no flow on many days.
Period of record: Maximum discharge, 8,700 ft³/s (246 m³/s) Apr. 21, 1973 (gage height, 20.60 ft or 6.279 m); no flow in most years.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	6.7	3.8	374	50	177	150	51	480	8.3	0	0
2	0	8.5	4.5	164	69	158	517	37	125	5.2	0	0
3	0	486	4.6	82	57	91	420	29	49	3.5	0	0
4	0	544	4.8	47	72	72	393	25	38	2.2	0	0
5	0	187	4.2	41	203	82	348	22	172	1.6	0	0
6	0	83	47	39	168	140	254	19	43	.97	0	0
7	0	34	412	41	74	160	102	136	16	.61	0	.10
8	0	11	382	53	35	134	69	856	10	3.3	0	1.1
9	0	6.6	122	56	15	102	77	898	9.9	6.7	0	.06
10	0	38	82	57	11	58	109	144	12	2.7	0	.68
11	0	251	45	69	9.4	50	86	63	10	1.0	0	2.9
12	0	131	53	66	9.5	56	53	43	16	.49	0	1.5
13	18	57	64	53	9.3	51	40	32	11	.36	0	.58
14	8.1	28	73	22	8.7	56	37	23	7.7	.20	0	.28
15	1.9	17	205	13	11	64	36	18	5.9	.06	0	.16
16	.48	12	206	9.1	21	124	36	15	4.4	0	0	.02
17	.18	7.7	86	7.8	89	209	34	12	4.1	0	0	0
18	.12	6.5	40	7.9	272	213	33	9.9	3.7	0	0	.08
19	.22	5.9	25	9.6	304	101	201	8.3	2.8	0	0	.29
20	.58	5.0	20	9.1	208	139	105	7.0	2.3	0	0	0
21	1.6	4.0	16	8.9	462	100	58	7.8	2.1	0	0	0
22	1.9	3.7	12	9.4	1200	54	36	8.5	1.7	0	0	0
23	2.0	3.1	13	7.8	1220	67	628	9.9	6.4	0	0	0
24	2.1	2.8	34	40	368	45	1880	10	5.3	0	0	0
25	2.3	3.1	24	272	283	45	1440	9.8	249	0	0	0
26	2.5	3.4	18	259	203	80	223	75	388	0	.20	0
27	2.5	2.7	16	103	176	130	135	316	265	0	.30	0
28	2.5	2.5	17	53	168	350	228	298	75	0	0	0
29	2.5	2.4	24	47	---	400	202	549	29	0	0	0
30	2.7	3.1	32	48	---	300	94	875	13	0	0	0
31	5.0	---	295	67	---	200	---	1510	---	0	0	---
TOTAL	57.18	1956.7	2444.7	2135.6	5729.9	4076	8192	6113.2	2029.3	37.19	.50	8.63
MEAN	1.84	65.2	78.9	68.9	205	131	273	197	67.6	1.20	.016	.29
MAX	18	544	412	374	1220	400	1880	1510	480	8.3	.30	2.9
MIN	0	2.4	3.8	7.8	8.7	45	33	7.0	1.7	0	0	0
CFSM	.02	.58	.70	.62	1.83	1.17	2.44	1.76	.60	.01	.0002	.003
IN.	.02	.65	.81	.71	1.90	1.35	2.72	2.03	.67	.01	.0002	.003
AC-FT	113	3880	4850	4240	11370	8080	16250	12130	4030	74	1.0	17

CAL YR 1974 TOTAL 44491.83 MEAN 122 MAX 4000 MIN 0 CFSM 1.09 IN 14.78 AC-FT 88250
WTR YR 1975 TOTAL 32770.98 MEAN 89.8 MAX 1880 MIN 0 CFSM .80 IN 10.89 AC-FT 65020

PEAK DISCHARGE (BASE, 1,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-23	1130	13.19	1,430	5-9	0330	12.82	1,280
4-24	1015	16.13	1,970	5-31	1715	13.61	1,630

06906300 East Fork Little Chariton River near Huntsville, Mo.

LOCATION.--Lat 39°27'16", long 92°34'16", in NW¼NW¼NW¼ sec.26, T.54 N., R.15 W., Randolph County, on right bank 600 ft downstream from bridge on State Highway C, 1 mi (1.6 km) downstream from Sugar Creek, and 1.5 mi (2.4 km) northwest of Huntsville.

DRAINAGE AREA.--220 mi² (570 km²).

PERIOD OF RECORD.--October 1962 to current year. Occasional low-flow measurements, water years 1942-43, 1945-46.

GAGE.--Water-stage recorder. Revised datum of gage is 655.86 ft (199.906 m) above mean sea level (levels by Missouri State Highway Commission). From July 18, 1972 to Sept. 23, 1974 at datum 0.63 ft (0.192 m) higher and from Sept. 24, 1974 at present datum.

AVERAGE DISCHARGE.--13 years, 195 ft³/s (5.52 m³/s), 12.03 in/yr (306 mm/yr), 141,300 acre-ft/yr (174.2 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,250 ft³/s (92.0 m³/s) Apr. 24 (gage height, 18.00 ft or 5.486 m); no flow Aug. 12.

Period of record: Maximum discharge, 30,000 ft³/s (850 m³/s) Apr. 21, 1973 (gage height, 20.78 ft or 6.333 m at datum then in use), from rating curve extended above 4,000 ft³/s (110 m³/s) on basis of slope-area measurement of peak flow; no flow during many days of 1963 and 1964 and Aug. 12, 1975.

REMARKS.--Records poor. Records of water quality are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	19	19	466	320	360	320	291	543	32	3.2	9.6
2	3.0	22	26	390	262	360	291	234	466	21	3.0	9.8
3	2.4	342	15	266	262	310	444	210	210	16	2.8	7.8
4	2.0	554	14	173	262	250	466	190	133	14	2.2	6.8
5	2.0	411	18	100	300	266	427	173	124	13	1.8	5.0
6	4.0	166	210	118	218	444	390	162	202	10	2.2	4.5
7	4.4	75	477	103	200	455	330	234	148	10	2.0	4.0
8	4.0	49	411	96	150	433	266	620	82	9.8	1.8	3.5
9	3.4	37	200	94	120	380	226	675	63	9.6	1.6	2.5
10	4.6	122	115	100	100	320	210	642	61	8.8	1.0	1.8
11	6.0	370	142	92	80	258	202	360	63	7.2	.40	3.2
12	26	300	96	80	70	310	190	226	57	9.2	.20	3.2
13	300	194	90	70	60	360	159	180	55	7.0	1.6	4.8
14	380	106	84	60	50	202	139	152	53	6.2	3.2	5.4
15	98	65	187	65	40	266	136	136	44	6.0	5.0	5.4
16	48	45	310	30	50	202	130	121	44	4.4	5.4	5.0
17	24	37	202	20	150	330	121	109	55	3.4	7.8	4.8
18	17	32	159	19	350	380	124	97	45	3.2	7.2	3.6
19	14	27	73	20	350	360	145	87	39	3.0	6.0	4.2
20	14	24	63	17	380	310	159	82	42	2.8	5.4	3.6
21	12	20	55	22	433	250	139	86	33	2.6	4.4	4.0
22	12	19	45	22	499	202	96	94	29	2.4	4.2	5.4
23	11	18	60	17	521	166	474	84	38	2.0	3.4	4.8
24	10	17	159	100	598	145	2320	92	33	1.6	2.8	3.6
25	12	16	148	300	587	159	1650	82	30	1.2	9.4	3.0
26	13	13	92	500	350	190	710	184	132	1.6	37	2.4
27	12	13	109	350	330	202	653	133	380	1.8	23	1.6
28	14	12	73	200	320	521	488	250	194	2.6	13	1.2
29	12	12	92	162	---	554	422	360	82	2.4	11	1.6
30	11	15	109	206	---	554	380	510	57	2.8	11	1.6
31	14	---	350	433	---	477	---	543	---	3.2	9.4	---
TOTAL	1095.0	3150	4252	4669	7352	10204	12000	7377	3532	218.8	193.00	126.1
MEAN	35.3	105	137	151	263	329	400	238	118	7.06	6.23	4.20
MAX	380	554	477	500	598	554	2320	675	543	32	37	9.8
MIN	2.0	12	14	17	40	145	96	82	29	1.2	.20	1.2
CFSM	.16	.48	.62	.69	1.20	1.50	1.82	1.08	.54	.03	.03	.02
IN.	.19	.53	.72	.79	1.24	1.73	2.03	1.25	.60	.04	.03	.02
AC-FT	2170	6250	8430	9260	14580	20240	23800	14630	7010	434	383	250

CAL YR 1974 TOTAL 67232.20 MEAN 184 MAX 3250 MIN 2.0 CFSM .84 IN 11.37 AC-FT 133400
WTR YR 1975 TOTAL 54160.90 MEAN 148 MAX 2320 MIN .20 CFSM .67 IN 9.18 AC-FT 107400

PEAK DISCHARGE (BASE, 1,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE
4-24	0200	18.00	3,250

06907500 South Fork Blackwater River near Elm, Mo.

LOCATION.--Lat 38°49'08", long 94°02'08", in SE¼SW¼ sec.5, T.46 N., R.28 W., Johnson County, on left bank at downstream side of bridge on county highway, 2.5 mi (4.0 km) southeast of Elm, and 3 mi (4.8 km) upstream from mouth.

DRAINAGE AREA.--16.6 mi² (43.0 km²).

PERIOD OF RECORD.--June 1954 to current year. Prior to October 1, 1963 published as "East Branch South Fork Blackwater River."

GAGE.--Water-stage recorder and concrete control. Datum of gage is about 795 ft (242.3 m) above mean sea level.

AVERAGE DISCHARGE--21 years, 12.4 ft³/s (0.351 m³/s), 10.14 in/yr (258 mm/yr), 9,200 acre ft/yr (11.3 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 712 ft³/s (20.2 m³/s) Sept. 10 (gage height, 4.82 ft or 1.469 m); no flow on many days.

Period of record: Maximum discharge, 5,600 ft³/s (159 m³/s) Apr. 15, 1960 (gage height, 12.0 ft or 3.66 m), from rating curve extended above 420 ft³/s (11.9 m³/s) on basis of contracted-opening and flow over-road measurement of peak flow; no flow for many days each year.

Flood in July 1951 reached a stage of 14.8 ft (4.51 m), from information by local residents.

REMARKS.--Records fair except those for periods of no gage-height record which are poor. Runoff affected at times by many soil conservation ponds upstream.

REVISIONS (WATER YEARS).--WSP 1919: 1958(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	1.9	.58	22	23	15	9.0	3.9	.40			0
2	0	3.4	.51	10	14	10	57	3.3	.20			0
3	0	144	.35	9.0	13	6.0	28	5.7	0			0
4	0	16	.26	7.6	15	3.0	17	4.4	0			0
5	0	6.7	.29	4.9	23	2.0	12	3.3	0			0
6	0	3.5	1.5	23	5.7	1.0	9.2	2.5	0			0
7	0	2.3	4.5	17	3.8	3.0	7.7	2.1	0			0
8	0	1.5	2.2	12	3.2	2.0	8.6	2.1	0			0
9	0	1.7	1.2	7.6	2.2	1.0	31	1.9	0			0
10	0	12	.90	11	2.0	1.0	14	1.4	0			240
11	0	15	11	7.8	2.0	1.0	9.5	1.2	0			16
12	0	4.4	13	3.5	2.0	2.0	7.6	1.2	0			3.5
13	0	2.9	5.2	2.6	2.0	1.0	6.7	1.0	0			1.5
14	0	2.0	4.2	2.6	2.0	1.0	9.1	.90	0			1.1
15	0	1.4	9.6	2.6	2.0	40	8.6	.81	0			.73
16	0	1.2	4.5	2.8	50	25	7.0	.63	20			.59
17	0	1.4	3.0	2.6	15	16	5.3	.46	10			.46
18	0	1.0	2.9	2.9	10	13	4.9	.38	5.0			1.7
19	0	1.1	2.8	4.0	6.0	10	4.9	.29	3.0			1.7
20	0	.91	2.8	3.4	20	8.5	3.5	.21	2.0			1.5
21	0	.73	2.7	3.7	10	7.6	2.9	.15	1.0			.73
22	0	.65	2.5	4.9	6.0	6.2	2.7	.22	0			.36
23	0	.54	2.6	7.4	4.0	7.1	3.8	.18	0			.12
24	0	.44	11	11	3.0	5.1	190	.14	0			.09
25	.11	.44	6.9	21	2.0	4.5	79	.15	0			.09
26	.95	.39	4.2	9.3	2.0	4.1	20	.17	0			.12
27	.13	.31	3.8	6.6	40	42	12	.12	0			.16
28	.02	.31	3.7	5.9	40	73	12	.47	0			.12
29	.01	.39	4.0	6.0	---	39	7.8	.73	0			.09
30	.01	.44	4.5	103	---	16	5.5	.73	0			.27
31	2.7	---	90	124	---	12	---	.69	---			---
TOTAL	3.93	229.12	207.19	459.6	322.9	378.1	596.3	41.41	41.60	0	0	270.93
MEAN	.13	7.64	6.68	14.8	11.5	12.2	19.9	1.34	1.39	0	0	9.03
MAX	2.7	144	90	124	50	73	190	5.7	20	0	0	240
MIN	0	.31	.26	2.6	2.0	1.0	2.7	.12	0	0	0	0
CFSM	.008	.46	.40	.89	.69	.73	1.20	.08	.08	0	0	.54
IN.	.009	.51	.46	1.03	.72	.85	1.34	.09	.09	0	0	.61
AC-FT	7.8	454	411	912	640	750	1180	82	83	0	0	537

CAL YR 1974 TOTAL 4375.50 MEAN 12.0 MAX 855 MIN 0 CFSM .72 IN 9.80 AC-FT 8680
WTR YR 1975 TOTAL 2551.08 MEAN 6.99 MAX 240 MIN 0 CFSM .42 IN 5.72 AC-FT 5060

PEAK DISCHARGE (BASE, 1,100 FT³/S).--No peak above base.

06908000 Blackwater River at Blue Lick, Mo.

LOCATION.--Lat 38°59'25", long 93°12'14", in NW¼NE¼ sec.34, T.49 N., R.21 W., Saline County, on right bank upstream from bridge on old U.S. Highway 65, 0.8 mile (1.3 km) downstream from Finney Creek, 1 mi (1.6 km) south of Blue Lick, and at mile 30.8 (49.6 km).

DRAINAGE AREA.--1,120 mi² (2,900 km²), approximately.

PERIOD OF RECORD.--June 1922 to September 1933, May 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 593.79 ft (180.987 m) above mean sea level. Prior to July 25, 1925, nonrecording gage at site 75 ft (23 m) downstream at datum 0.10 ft (0.030 m) lower. July 25, 1925 to Sept. 30, 1933, and May 23, 1938 to Dec. 3, 1956, nonrecording gage at site 25 ft (7.6 m) downstream at same datum.

AVERAGE DISCHARGE.--48 years, 725 ft³/s (20.5 m³/s), 8.79 in/yr (223 mm/yr), 525,300 acre-ft/yr (648 hm³/yr).

EXTREMES.--Current year: Maximum discharge observed, 10,400 ft³/s (295 m³/s) Apr. 27 (gage height, 30.64 ft or 9.339 m); minimum, 1.6 ft³/s (0.045 m³/s) Oct. 10; minimum gage height, 6.05 ft (1.844 m) Aug. 13.
Period of record: Maximum discharge, 54,000 ft³/s (1,530 m³/s) Nov. 18, 1928 (gage height, 41.25 ft or 12.573 m, from floodmarks), from rating curve extended above 32,000 ft³/s (906 m³/s) by logarithmic plotting; minimum, 0.1 ft³/s (0.003 m³/s) Sept. 4 to Oct. 20, Oct. 26, 29, Nov. 16-18, 1956, Oct. 4, 5, 1963; minimum gage height, 0.96 ft (0.293 m) July 6, 1926

REMARKS.--Records fair except periods of no gage-height record, which are poor.

REVISIONS (WATER YEARS).--WSP 1006: 1929.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	181	86	3490	4990	4150	933	900	298	22	8.4	21
2	30	168	95	2960	5290	4510	823	700	168	32	7.5	14
3	14	3560	96	1370	5830	3700	1860	500	131	22	7.3	12
4	8.7	4730	80	885	5590	1450	1750	523	98	15	7.0	11
5	5.6	4620	82	725	2730	1080	1090	300	85	13	6.8	21
6	4.2	4870	265	790	1560	1300	716	500	73	11	9.0	12
7	3.2	5230	1240	1180	834	1450	567	909	62	10	8.9	9.9
8	2.4	4250	1370	918	563	1510	498	600	51	9.0	7.8	9.3
9	2.0	785	511	601	483	956	468	300	45	8.8	7.1	8.9
10	1.8	517	252	467	410	715	470	200	95	8.3	6.7	8.9
11	3.1	2420	336	432	419	674	460	193	145	8.1	6.0	1780
12	111	2470	2010	287	456	923	462	179	95	11	5.7	4210
13	349	1110	2200	192	398	1440	340	174	80	12	5.4	4540
14	445	381	1020	174	354	1220	350	169	63	10	7.7	4830
15	233	240	709	195	407	1140	436	141	51	8.7	66	3860
16	133	178	698	180	749	1750	300	129	39	8.1	91	880
17	72	162	420	195	3600	2000	250	117	2350	7.4	48	234
18	39	152	281	184	4070	1220	200	106	3270	7.2	25	121
19	22	146	229	186	4860	863	200	99	1330	6.6	16	505
20	14	142	224	194	2830	695	265	96	242	6.3	13	1550
21	10	136	222	237	2270	572	150	88	128	6.2	11	421
22	7.3	124	213	137	2200	485	227	82	144	6.0	11	129
23	4.8	116	280	173	1590	408	800	79	202	6.4	10	78
24	3.8	111	289	243	1150	362	5230	73	379	6.1	9.7	56
25	4.4	102	483	863	997	306	9390	71	127	5.6	20	42
26	5.6	91	387	1076	1130	256	9650	76	72	5.4	178	31
27	8.7	85	266	882	1490	404	10300	105	55	5.6	170	23
28	11	83	258	730	2270	1780	9520	178	61	5.7	104	18
29	12	81	256	584	---	3760	9130	786	45	5.9	83	15
30	9.2	83	282	1160	---	3740	3190	794	33	6.1	56	13
31	200	---	1210	4790	---	2600	---	645	---	8.2	35	---
TOTAL	1826.8	37324	16350	26308	58711	47419	70025	9812	10017	303.7	1048.0	23464.0
MEAN	58.9	1244	528	849	2097	1530	2334	317	334	9.80	33.8	782
MAX	445	5230	2200	4790	5830	4510	10300	909	3270	32	178	4830
MIN	1.8	81	82	137	354	256	150	71	33	5.4	5.4	8.9
CFSM	.05	1.11	.47	.76	1.87	1.37	2.08	.28	.30	.009	.03	.70
IN.	.06	1.24	.54	.87	1.95	1.57	2.33	.33	.33	.01	.03	.78
AC-FT	3620	74030	32450	52180	116500	94060	138900	19460	19870	602	2080	46540

CAL YR 1974 TOTAL 368443.1 MEAN 1009 MAX 19900 MIN 1.8 CFSM .90 IN 12.24 AC-FT 730800
WTR YR 1975 TOTAL 302616.5 MEAN 829 MAX 10300 MIN 1.8 CFSM .74 IN 10.05 AC-FT 600200

PEAK DISCHARGE (BASE, 10,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE
4-27	1630	30.64	10,400

06909000 Missouri River at Boonville, Mo.

LOCATION.--Lat 38°58'42", long 92°45'13", sec.35, T.49 N., R.17 W., Cooper County, on downstream side of second pier from right abutment of Missouri-Kansas-Texas Railroad Co. bridge at Boonville. River mile 196.6 (316.3 km).

DRAINAGE AREA.--505,700 mi² (1,310,000 km²), approximately.

PERIOD OF RECORD.--October 1925 to current year. Gage-height records collected at same site 1893-99 are contained in reports of Missouri River Commission; since 1900 in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 565.42 ft (172.340 m) above mean sea level. Prior to Oct. 1, 1928, nonrecording gage at site 0.4 mi (0.6 km) downstream at datum 3.14 ft (0.957 m) lower. Oct. 1, 1928, to May 9, 1931, nonrecording gage at site 50 ft (15 m) upstream from present site at present datum. May 10, 1931, to Apr. 12, 1934, water-stage recorder at site 0.4 mi (0.6 km) downstream at different datum.

AVERAGE DISCHARGE.--50 years, 57,890 ft³/s (1,639 m³/s), 41,940,000 acre-ft/yr (51,710 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 195,000 ft³/s (5,520 m³/s) Apr. 25 (gage height, 23.29 ft or 7.099 m); minimum, 23,900 ft³/s (677 m³/s) Jan. 20 (gage height, 4.12 ft or 1.256 m).

Period of record: Maximum discharge, 550,000 ft³/s (15,580 m³/s) July 17, 1951; maximum gage height, 32.82 ft (10.004 m) July 17, 1951; minimum discharge, about 1,800 ft³/s (51.0 m³/s) Jan. 10, 1940; minimum gage height, -0.85 ft (-0.259 m) Jan. 13, 1937.

Flood of June 21, 1844 reached a stage of 32.7 ft or 9.97 m (discharge, about 710,000 ft³/s or 20,110 m³/s, computed by Corps of Engineers). Flood of June 6, 1903, reached a stage of 30.5 ft or 9.30 m (discharge, about 612,000 ft³/s or 17,330 m³/s, computed by Corps of Engineers).

REMARKS.--Records good. Discharge measurements made 3 times a month during winter and 4 or more times monthly during rest of year. Flow partly regulated by many reservoirs above station.

REVISIONS.--WSP 761: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41800	66300	40400	39900	61000	54500	77300	104000	117000	91700	70300	75900
2	42300	91800	37500	41400	59800	61400	66600	97000	107000	85500	69400	76400
3	42400	89000	35600	37300	47600	58500	68600	81000	88900	84400	69000	72600
4	42800	100000	34000	34400	44800	52500	70000	74300	77700	84200	69400	70500
5	42800	99400	32400	33300	43600	47500	66700	70500	71400	83100	69900	70300
6	42300	79600	32000	32800	42400	49000	62300	68500	74300	82600	69000	77800
7	42700	66500	37700	33500	41200	50100	61000	74000	71300	82100	68500	85000
8	43300	60300	41700	34200	40500	49100	61600	77100	68300	81400	67700	79900
9	44400	56000	38600	35000	38000	47600	60500	83700	68100	81000	66400	75900
10	44700	52600	36300	35600	39500	48000	59400	85100	70300	81600	66400	74000
11	44300	55000	35200	47100	33300	44200	62500	79000	86300	81700	66500	75000
12	45000	59600	37000	42600	32200	43300	67400	72100	109000	80800	65900	100000
13	47200	56700	40300	43500	32600	44300	69100	67300	125000	79500	65400	102000
14	55100	53600	36900	37500	33800	43700	69100	63300	115000	77200	66700	90300
15	56000	52100	34300	30800	34700	42100	68900	60500	104000	73200	69500	83300
16	50100	50900	34900	27800	35400	41600	68200	57400	96000	69900	70000	77400
17	48100	50000	35200	27300	47200	42900	69800	55000	90900	66600	70000	73200
18	47600	49300	37000	25900	57200	46100	68700	53600	92200	66700	69300	70800
19	46200	48500	35500	24800	56500	53100	76300	52400	83300	65400	68700	72100
20	43800	46800	33400	24300	46800	65700	87900	51700	88000	63900	68500	75800
21	42600	45400	32100	28000	43600	74500	82500	51400	104000	61200	70300	72100
22	42500	45200	31300	32300	52000	75400	76000	51000	103000	60900	72900	70300
23	41700	45300	30200	33100	70000	74800	71000	51500	98700	61800	72400	71100
24	41400	45500	30000	32800	68700	67800	121000	50300	98100	62600	71000	71000
25	42000	45900	33700	33700	57400	60900	105000	49600	107000	63600	70600	72000
26	42300	46700	33600	35300	49300	56100	180000	50200	113000	64000	77000	71100
27	42900	47400	31100	35000	44400	57200	164000	51500	120000	64800	80600	70300
28	42900	46200	30500	35000	48300	69100	130000	56200	126000	66100	75600	70200
29	42900	44800	30500	35000	---	85700	105000	59600	113000	70100	73200	70400
30	43500	43300	30600	37200	---	90100	93000	68600	102000	72500	72000	70700
31	44700	---	32400	51300	---	89000	---	107000	---	72200	73000	---
TOTAL	1382300	1740500	1071900	1079300	1283800	1784600	2578200	2076800	2889600	2283000	2175100	2288200
MEAN	44590	58020	34580	34820	45850	57570	85940	66990	96320	73650	70160	76270
MAX	56000	100000	41700	51300	70000	90100	180000	107000	126000	91700	80600	102000
MIN	41400	43300	30000	24300	32200	41600	59400	49600	68100	60900	65400	70200
AC-FT	2742000	3452000	2126000	2141000	2546000	3540000	5114000	4119000	5732000	4528000	4314000	4539000

CAL YR 1974 TOTAL 24014400 MEAN 65790 MAX 271000 MIN 30000 AC-FT 47630000
WTR YR 1975 TOTAL 22633300 MEAN 62010 MAX 180000 MIN 24300 AC-FT 44890000

06910230 Hinkson Creek at Columbia, Mo.

LOCATION.--Lat 38°55'42", long 92°20'26", in NE¼NW¼SW¼ sec.24, T.48 N., R.13 W., Boone County, on left bank 400 ft (122 m) downstream from bridge on State Highway K, 0.5 mi (0.8 km) south of Columbia, and 1 mi (1.6 km) upstream from Flat Branch.

DRAINAGE AREA.--70.2 mi² (182 km²).

PERIOD OF RECORD.--October 1966 to current year. Occasional low-flow measurements, 1942, 1943, 1946, 1952, 1953, 1962, 1963.

GAGE.--Water-stage recorder. Datum of gage is 583.52 ft (177.857 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 63.9 ft³/s (1.81 m³/s), 12.36 in/yr (314 mm/yr), 46,300 acre-ft/yr (57.1 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,680 ft³/s (75.9 m³/s) Apr. 24 (gage height, 12.10 ft or 3.688 m); no flow Aug. 12.

Period of record: Maximum discharge, 9,100 ft³/s (258 m³/s) May 15, 1970 (gage height, 18.91 ft or 5.764 m) from rating extended above 5,000 ft³/s (142 m³/s) on basis of step-backwater computations; no flow at times in many years.

REMARKS.--Records fair except periods of ice effect, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.65	1.5	2.7	89	145	199	50	36	25	2.1	.74	3.5
2	.65	.77	2.4	31	84	134	43	26	16	1.4	.53	2.5
3	.44	245	1.8	26	63	78	32	23	7.8	1.1	.33	2.4
4	.40	201	1.2	34	58	59	26	29	4.5	1.7	.21	2.1
5	.22	158	.98	27	51	172	22	16	4.0	.90	.16	2.2
6	.57	36	75	19	40	326	15	31	2.5	.67	.14	2.0
7	.32	13	236	13	30	387	12	53	2.6	.53	.12	1.5
8	.34	5.6	71	12	25	188	11	66	2.4	.61	.22	1.2
9	.49	2.8	40	8.6	20	62	11	26	2.2	.62	.09	1.2
10	.38	56	30	118	15	49	10	17	2.2	.73	.09	1.3
11	.31	98	82	98	10	49	10	22	3.2	.50	.09	114
12	.42	31	146	43	10	104	10	18	3.3	7.3	.07	30
13	.73	13	59	30	10	188	10	12	2.4	6.5	.90	11
14	5.0	6.2	32	25	10	59	10	7.7	1.9	1.3	21	3.2
15	2.2	3.2	32	20	9.0	62	10	8.4	1.6	.51	2.5	2.4
16	1.1	2.9	29	16	10	65	10	6.9	15	.39	1.1	2.6
17	.73	2.8	18	12	285	50	15	4.5	375	.34	.72	2.3
18	.67	2.3	11	9.0	127	36	16	4.8	71	.36	.50	8.6
19	.46	2.1	8.3	6.7	97	30	22	4.4	18	.46	.41	404
20	.38	1.5	6.8	7.2	70	23	17	6.4	7.1	.50	.51	31
21	.29	1.5	5.0	7.2	72	20	12	28	3.7	.62	.27	18
22	.33	1.3	4.1	7.2	357	16	9.9	11	2.6	.67	.27	9.0
23	.31	.73	3.7	7.2	288	14	570	7.2	2.5	.48	.27	5.9
24	.29	.67	3.6	17	192	13	1570	40	2.3	52	.23	12
25	.32	.53	4.2	126	119	8.8	315	87	2.8	3.5	222	11
26	.36	.62	3.3	50	100	7.3	127	44	3.1	3.5	284	5.6
27	.62	.55	3.3	34	123	1000	86	15	52	1.2	43	2.2
28	.42	.41	3.7	24	137	523	66	7.8	54	.71	25	2.9
29	.38	.49	4.0	39	---	289	47	5.1	11	.63	54	29
30	.27	1.5	3.6	541	---	104	49	74	3.6	.70	30	11
31	2.0	---	32	847	---	69	---	87	---	.81	11	---
TOTAL	22.05	890.97	985.60	2382.1	2477.0	4186.1	3213.9	815.2	705.3	93.42	680.47	743.6
MEAN	.71	29.7	30.8	75.9	88.5	135	107	26.3	23.5	3.01	22.0	24.8
MAX	5.0	245	236	847	357	1000	1570	87	375	52	284	404
MIN	.22	.41	.98	6.7	9.0	7.3	9.9	4.4	1.6	.34	.07	1.2
CFSM	.01	.42	.44	1.08	1.26	1.92	1.52	.37	.33	.04	.31	.35
IN.	.01	.47	.51	1.25	1.31	2.22	1.70	.43	.37	.05	.36	.39
AC-FT	44	1770	1960	4670	4910	8300	6370	1620	1400	185	1350	1470

CAL YR 1974 TOTAL 27120.47 MEAN 74.3 MAX 2910 MIN .06 CFSM 1.06 IN 14.37 AC-FT 53790
WTR YR 1975 TOTAL 17135.79 MEAN 46.9 MAX 1570 MIN .07 CFSM .67 IN 9.08 AC-FT 33990

PEAK DISCHARGE (BASE, 2,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-30	2200	10.91	2,140	4-24	0800	12.10	2,680
3-27	1800	11.10	2,220				

06910410 Cedar Creek near Columbia, Mo.

LOCATION.--Lat 38°57'16", long 92°08'57", in NW¼SW¼ sec.10, T.48 N., R.11 W., Boone County, on downstream side of right pier of bridge on access road to Interstate Highway 70, 1 mi (1.6 km) downstream from Manacle Creek, and 9.5 mi (15.3 km) east of Columbia.

DRAINAGE AREA.--44.8 mi² (116 km²).

PERIOD OF RECORD.--June 1964 to September 1975 (discontinued).

GAGE.--Water-stage recorder. Datum of gage 776.45 ft (236.661 m) above mean sea level (levels by Missouri State Highway Commission).

AVERAGE DISCHARGE.--11 years, 40.7 ft³/s (1.15 m³/s), 12.34 in/yr (313 mm/yr), 29,490 acre-ft/yr (36.4 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 1,570 ft³/s (44.5 m³/s) Apr. 24 (gage height, 11.26 ft or 3.432 m); no flow on many days.
Period of record: Maximum discharge, 5,140 ft³/s (146 m³/s) Oct. 12, 1969 (gage height, 16.13 ft or 4.916 m); no flow on some days in most years.

REMARKS.--Records poor. Records of daily water conductivity and chemical analyses are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.03	.80	.70	44	106	120	22	14	7.1	.10	0	1.6
2	.01	.20	.50	15	47	100	17	7.5	3.2	.06	0	1.1
3	.01	100	.40	13	39	47	17	6.2	1.6	.02	0	1.2
4	.01	124	.40	16	30	31	13	5.9	1.4	.01	0	1.7
5	.01	157	.40	12	32	199	10	4.9	1.6	0	0	2.0
6	.01	26	13	9.5	20	408	8.2	5.6	1.9	0	0	1.4
7	.01	9.6	190	7.6	15	445	6.8	9.6	1.1	0	0	1.2
8	.01	6.5	47	6.9	8.0	93	6.6	15	.97	0	0	.97
9	.01	4.6	18	4.9	7.0	38	8.2	7.5	3.5	0	0	.83
10	.01	81	9.8	164	6.0	31	6.0	5.9	1.7	0	0	.71
11	.01	92	18	114	5.0	30	5.6	4.1	1.8	0	0	65
12	.20	16	160	18	4.5	57	4.6	4.9	1.3	0	0	16
13	.50	4.9	38	13	4.0	62	4.4	3.4	1.1	0	0	7.8
14	4.0	2.0	20	12	4.0	37	5.6	3.2	1.1	0	4.1	2.6
15	2.0	.80	20	12	4.0	51	5.9	2.6	1.1	0	1.0	2.0
16	1.0	.50	16	11	4.0	77	4.9	2.0	14	0	.50	2.6
17	.50	.40	12	11	100	45	4.9	1.6	146	0	.20	2.0
18	.20	.50	7.3	7.4	80	29	5.8	1.5	22	0	.10	82
19	.10	1.5	5.2	1.8	60	20	7.8	1.4	10	0	.10	690
20	.01	1.0	4.1	2.0	50	16	8.3	1.8	3.9	0	.20	28
21	.01	1.2	3.5	1.7	60	14	5.6	10	2.6	0	.10	10
22	.01	1.2	3.2	1.5	300	12	4.2	3.0	2.2	0	.10	6.2
23	.01	1.2	2.6	1.5	200	9.8	211	2.0	2.0	0	.10	5.2
24	.01	1.0	2.4	17	80	8.5	1190	2.4	1.6	.42	.10	8.2
25	.01	.60	2.6	105	60	7.0	310	6.8	.97	.05	233	6.8
26	.01	.50	2.4	31	50	5.8	46	3.6	.97	.01	339	4.1
27	.01	.50	2.4	15	50	644	30	2.2	14	0	9.6	2.0
28	.01	.40	2.7	9.9	60	503	22	1.8	4.6	0	.97	2.8
29	.01	.40	3.3	78	---	207	15	1.6	.71	0	9.6	6.4
30	.01	.50	3.2	385	---	42	12	6.5	.50	0	2.8	4.8
31	1.5	---	21	936	---	30	---	5.6	---	0	2.0	---
TOTAL	10.24	636.80	630.10	2076.7	1485.5	3419.1	2018.4	154.1	256.52	.67	603.57	967.21
MEAN	.33	21.2	20.3	67.0	53.1	110	67.3	4.97	8.55	.022	19.5	32.2
MAX	4.0	157	190	936	300	644	1190	15	146	.42	339	690
MIN	.01	.20	.40	1.5	4.0	5.8	4.2	1.4	.50	0	0	.71
CFSM	.007	.47	.45	1.50	1.19	2.46	1.50	.11	.19	.0005	.44	.72
IN.	.009	.53	.52	1.72	1.23	2.84	1.68	.13	.21	.0006	.50	.80
AC-FT	20	1260	1250	4120	2950	6780	4000	306	509	1.3	1200	1920

CAL YR 1974 TOTAL 20869.94 MEAN 57.2 MAX 2970 MIN .01 CFSM 1.28 IN 17.33 AC-FT 41400
WTR YR 1975 TOTAL 12258.91 MEAN 33.6 MAX 1190 MIN 0 CFSM .75 IN 10.18 AC-FT 24320

PEAK DISCHARGE (BASE, 1,100 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-30	2115	10.82	1,420	4-24	2215	11.26	1,570
3-27	1700	11.20	1,540	8-25	2145	10.29	1,260

06918440 Sac River near Dadeville, Mo.

LOCATION.--Lat 37°26'35", long 93°41'05", in NE¼NE¼NW¼ sec.9, T.31 N., R.25 W., Dade County, on downstream side of bridge on State Highway 245, 2 mi (3.2 km) upstream from Cave Spring Branch and 2 mi (3.2 km) south of Dadeville.

DRAINAGE AREA.--257 mi² (666 km²).

PERIOD OF RECORD.--June 1966 to current year. Annual maximum, water years 1965-66.

GAGE.--Water-stage recorder. Datum of gage is 869.78 ft (265.109 m) above mean sea level (levels by Missouri State Highway Commission). Prior to June 1966, crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--9 years, 259 ft³/s (7.33 m³/s), 13.69 in/yr (347 mm/yr), 187,600 acre-ft/yr (231 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,880 ft³/s (110 m³/s) Nov. 4 (gage height, 14.81 ft or 4.514 m); minimum, 20 ft³/s (0.57 m³/s) Aug 25, 26, 27 (gage height, 4.71 ft or 1.436 m).
Period of record: Maximum discharge, 8,030 ft³/s (227 m³/s) Nov. 1, 1972 (gage height, 20.63 ft or 6.288 m), from floodmark; minimum, 9.4 ft³/s (0.266 m³/s) Aug. 21, 1972 (gage height, 4.34 ft or 1.323 m).

REMARKS.--Records fair. Records of water temperature are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	193	178	368	1730	1300	768	247	85	81	29	51
2	88	196	170	357	1360	1240	669	231	84	76	30	43
3	76	984	163	374	1090	1040	595	220	89	73	31	37
4	73	3320	159	354	923	880	532	215	84	70	29	33
5	70	2280	154	338	858	766	483	204	81	67	26	30
6	69	1280	224	325	757	675	443	194	89	64	25	28
7	67	891	307	309	653	719	414	191	84	65	24	26
8	66	708	320	297	605	639	395	183	83	62	23	26
9	65	587	307	280	553	577	372	177	80	59	23	25
10	63	503	297	492	494	574	348	166	257	56	23	38
11	61	869	405	486	469	719	329	168	167	53	23	458
12	60	705	445	425	433	2370	313	183	134	51	22	801
13	70	605	433	395	393	2360	300	144	111	49	21	217
14	164	522	408	360	379	1600	296	141	98	48	25	158
15	207	455	385	341	358	1310	285	137	92	46	31	134
16	171	409	354	317	345	1530	272	130	123	45	35	130
17	147	371	327	294	366	2100	262	124	1090	43	29	119
18	132	342	307	284	344	1830	258	119	303	42	26	107
19	119	320	289	268	320	2120	251	115	198	42	25	618
20	112	294	268	258	316	1470	238	112	166	43	26	418
21	103	275	258	247	304	1190	228	113	144	41	25	283
22	97	260	247	233	2060	994	220	107	130	38	24	227
23	93	248	235	222	2390	850	217	102	131	34	22	191
24	90	232	224	217	1500	734	295	99	129	42	21	163
25	86	218	215	220	1170	628	442	101	116	39	29	145
26	85	209	204	206	1050	557	358	99	107	37	20	131
27	85	201	202	200	1030	731	313	94	99	35	21	121
28	84	192	196	194	1100	1490	296	92	104	37	26	127
29	87	188	191	194	---	1320	282	108	96	34	38	394
30	84	190	185	419	---	1070	262	102	87	32	185	305
31	108	---	228	2610	---	898	---	91	---	31	75	---
TOTAL	2966	18129	8285	11874	23358	36281	10736	4509	4641	1535	1003	5584
MEAN	95.7	604	267	383	834	1170	358	145	155	49.5	32.4	186
MAX	207	3320	445	2610	2390	2370	768	247	1090	81	185	801
MIN	60	188	154	194	304	557	217	91	80	31	20	25
CFSM	.37	2.35	1.04	1.49	3.25	4.55	1.39	.56	.60	.19	.13	.72
IN.	.43	2.62	1.20	1.72	3.38	5.25	1.55	.65	.67	.22	.15	.81
AC-FT	5880	35960	16430	23550	46330	71960	21290	8940	9210	3040	1990	11080

CAL YR 1974 TOTAL 127958 MEAN 351 MAX 5110 MIN 51 CFSM 1.37 IN 18.52 AC-FT 253800
WTR YR 1975 TOTAL 128901 MEAN 353 MAX 3320 MIN 20 CFSM 1.37 IN 18.66 AC-FT 255700

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	1500	14.81	3,880	1-31	1300	13.20	3,040

06918460 Turnback Creek above Greenfield, Mo.

LOCATION.--Lat 37°24'09", long 93°48'06", on line between secs.21 and 28, T.31 N., R.26 W., Dade County, on downstream side of left pier of bridge on State Highway O, 1.5 mi (2.4 km) downstream from Limestone Creek, and 2 mi (3.2 km) southeast of Greenfield.

DRAINAGE AREA.--252 mi² (653 km²).

PERIOD OF RECORD.--September 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 870.34 ft (265.280 m) above mean sea level (levels by Missouri State Highway Commission).

AVERAGE DISCHARGE.--10 years, 266 ft³/s (7.53 m³/s), 14.33 in/yr (364 mm/yr), 192,700 acre-ft/yr (238 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,140 ft³/s (117 m³/s) Jan. 31 (gage height, 14.48 ft or 4.414 m); minimum, 22 ft³/s (0.62 m³/s) Aug. 27; minimum gage height, 5.96 ft (1.817 m) Aug. 13.
Period of record: Maximum discharge, 23,100 ft³/s (654 m³/s) Nov. 1, 1972 (gage height, 24.45 ft or 7.452 m, floodmark); minimum, 13 ft³/s (0.37 m³/s) Aug. 21, 1972; minimum gage height, 5.76 ft (1.756 m) Oct. 5, 10, 1970.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	205	166	304	1670	1230	741	239	97	78	34	137
2	63	174	159	282	1290	1070	658	224	97	72	35	102
3	60	1110	151	316	1090	902	584	228	103	68	35	78
4	58	3440	145	292	932	781	516	211	97	65	32	63
5	55	1760	140	281	870	695	472	201	150	61	31	51
6	53	1080	229	275	751	619	436	195	145	59	29	45
7	52	948	384	265	658	679	405	190	129	156	29	39
8	51	789	369	254	610	576	385	193	130	78	28	35
9	50	657	340	239	543	530	361	181	114	69	27	33
10	49	677	323	455	497	529	331	170	106	67	27	37
11	48	765	523	394	470	720	309	167	116	60	26	463
12	49	631	558	346	432	2490	289	160	105	55	26	536
13	58	577	516	320	396	1900	275	156	95	52	25	228
14	173	513	471	303	376	1340	271	150	88	50	30	156
15	105	462	435	285	351	1130	253	145	86	48	33	120
16	136	425	390	272	344	1530	237	142	91	46	34	124
17	121	393	356	254	306	1000	225	139	1030	44	33	104
18	111	366	324	242	337	1070	218	138	328	42	31	89
19	101	345	299	234	314	2000	210	134	236	43	30	693
20	96	314	273	219	298	1370	191	129	191	44	64	394
21	88	290	253	206	287	1110	180	128	160	41	43	287
22	83	273	237	191	1700	922	172	121	142	38	34	286
23	78	258	218	179	2220	806	167	116	145	42	30	168
24	73	230	204	176	1400	699	449	114	143	65	26	142
25	70	219	188	176	1110	610	610	115	126	54	24	122
26	70	208	176	163	992	549	413	111	116	48	23	106
27	68	196	166	153	1080	956	343	106	106	46	24	93
28	68	185	158	148	1130	1400	324	103	98	42	27	105
29	72	181	153	148	---	1250	295	123	90	41	42	551
30	70	181	144	371	---	1010	267	114	83	37	680	399
31	127	---	210	3080	---	859	---	103	---	35	235	---
TOTAL	2503	17852	8666	10823	22462	34020	10595	4746	4743	1746	1827	5694
MEAN	80.7	595	280	349	802	1097	353	153	158	56.3	58.9	190
MAX	185	3440	558	3080	2220	2490	741	239	1030	156	680	693
MIN	48	174	140	148	287	529	167	103	83	35	23	33
CFSM	.32	2.36	1.11	1.38	3.18	4.35	1.40	.61	.63	.22	.23	.75
IN.	.37	2.64	1.28	1.60	3.32	5.02	1.56	.70	.70	.26	.27	.84
AC-FT	4960	35410	17190	21470	44550	67480	21020	9410	9410	3460	3620	11290

CAL YR 1974 TOTAL 137163 MEAN 376 MAX 7830 MIN 43 CFSM 1.49 IN 20.25 AC-FT 272100
WTR YR 1975 TOTAL 125677 MEAN 344 MAX 3440 MIN 23 CFSM 1.37 IN 18.55 AC-FT 249300

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	0930	14.24	3,970	2-22	2000	13.65	3,570
1-31	0515	14.48	4,140				

06918700 Oak Grove Branch near Brighton, Mo.

LOCATION.--Lat 37°24'11", long 93°21'21", in SE¼NW¼ sec.21, T.31 N., R.22 W., Greene County, on left bank just upstream from culvert on State Highway BB, 0.6 mi (1.0 km) west of State Highway 13 and 4 mi (6.4 km) south of Brighton.

DRAINAGE AREA.--1.30 mi² (3.38 km²).

PERIOD OF RECORD.--July 1956 to September 1975 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 1,030 ft (314 m) from topographic map.

AVERAGE DISCHARGE.--19 years, 0.98 ft³/s (0.03 m³/s), 10.24 in/yr (260 mm/yr), 710 acre-ft/yr (875,400 m³/yr).

EXTREMES.--Current year: Maximum discharge, 156 ft³/s (4.42 m³/s) Nov. 3 (gage height, 2.49 ft or 0.759 m); no flow on many days.

Period of record: Maximum discharge, 845 ft³/s (23.9 m³/s) May 22, 1957 (gage height, 7.60 ft or 2.316 m); no flow at times each year.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	2.9	.10	2.7	5.2	4.2	1.7	.80	0	.50	0	0
2	.10	1.9	.10	1.9	4.8	2.7	1.6	.60	.10	.50	0	0
3	.10	42	.10	1.6	3.2	1.4	1.3	.60	.10	.30	0	0
4	0	35	.10	1.1	2.5	1.1	1.1	.50	.10	.20	0	0
5	0	4.0	.10	.90	5.2	.90	1.0	.30	.10	.10	0	0
6	0	1.9	5.1	.80	3.4	.80	.90	.30	.10	.10	0	0
7	0	1.2	5.5	.70	2.7	.70	.90	.20	.10	0	0	0
8	0	.60	2.2	.60	2.5	.60	.80	.20	.10	0	0	0
9	0	.60	1.3	.60	2.2	.60	.80	.10	.10	0	0	0
10	0	8.1	.90	6.6	2.2	.60	.80	.10	.20	0	0	0
11	0	4.0	4.8	2.3	2.0	22	.70	.10	.20	0	0	2.5
12	0	1.7	2.7	1.2	2.0	14	.70	.10	.20	0	0	.10
13	0	1.3	1.9	.90	1.9	4.0	.70	.10	.10	0	0	0
14	3.6	.90	1.3	.70	1.9	2.3	.70	.10	.10	0	0	0
15	1.7	.60	1.0	.60	1.7	2.7	.70	.10	.10	0	0	0
16	.90	.40	.70	.50	1.9	12	.70	0	.10	0	0	0
17	.60	.30	.50	.40	1.9	7.0	.70	0	4.3	0	0	0
18	.40	.30	.40	.40	1.9	5.5	1.0	0	.70	0	0	0
19	.30	.20	.30	.30	1.4	2.7	1.6	0	.30	0	0	4.7
20	.20	.20	.30	.30	1.2	1.7	1.4	0	.20	0	0	.70
21	.20	.20	.20	.20	1.2	1.2	1.2	0	.10	0	0	.30
22	.20	.10	.20	.20	36	1.0	1.0	0	.20	0	0	.20
23	.10	.10	.20	.20	4.0	.90	1.0	0	3.2	0	0	.10
24	.10	.10	.20	.20	2.7	.70	9.7	0	1.0	0	0	.10
25	.10	.10	.20	.40	2.2	.60	2.9	0	3.5	0	0	.10
26	.10	.10	.10	.40	3.0	.60	1.4	0	1.6	0	0	.10
27	.10	.10	.10	.40	4.0	15	1.1	0	.70	0	0	0
28	.20	.10	.10	.40	5.2	7.3	1.4	0	.50	0	0	.10
29	.20	.10	.10	.60	---	3.8	1.2	.10	.50	0	0	4.0
30	.40	.10	.10	23	---	2.3	1.0	0	.40	0	.20	5.7
31	3.9	---	7.1	24	---	1.9	---	0	---	0	0	---
TOTAL	13.60	109.40	38.00	75.10	110.0	122.80	41.70	4.30	19.10	1.70	.20	18.70
MEAN	.44	3.65	1.23	2.42	3.93	3.96	1.39	.14	.64	.055	.007	.62
MAX	3.9	42	7.1	24	36	22	9.7	.80	4.3	.50	.20	5.7
MIN	0	.10	.10	.20	1.2	.60	.70	0	0	0	0	0
CFSM	.34	2.81	.95	1.86	3.02	3.05	1.07	.11	.49	.04	.005	.48
IN.	.39	3.13	1.09	2.15	3.15	3.51	1.19	.12	.55	.05	.006	.53
AC-FT	27	217	75	149	218	244	83	8.5	38	3.4	.4	37

CAL YR 1974 TOTAL 610.10 MEAN 1.67 MAX 73 MIN 0 CFSM 1.28 IN 17.44 AC-FT 1210
WTR YR 1975 TOTAL 554.60 MEAN 1.52 MAX 42 MIN 0 CFSM 1.17 IN 15.86 AC-FT 1100

PEAK DISCHARGE (BASE, 100 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	2345	2.49	156	1-30	2200	2.19	123

06918740 Little Sac River near Morrisville, Mo.

LOCATION.--Lat 37°28'58", long 93°29'07", SW¼SW¼ sec.20, T.32 N., R.23 W., Polk County, on downstream side of center pier of Hamilton Bridge on State Highway 215, 0.7 mi (1.1 km) upstream from Slagle Creek and 3 mi (4.8 km) west of Morrisville.

DRAINAGE AREA.--237 mi² (614 km²).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 881 ft (268.5 m) from topographic map.

AVERAGE DISCHARGE.--7 years, 264 ft³/s (7.48 m³/s), 15.12 in/yr (384 mm/yr), 191,300 acre-ft/yr (236 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7,730 ft³/s (219 m³/s) Nov. 4 (gage height, 15.62 ft or 4.761 m); minimum, 5.9 ft³/s (0.17 m³/s) Aug. 12, 13 (gage height, 2.15 ft or 0.655 m).
Period of record: Maximum discharge, 13,200 ft³/s (374 m³/s) Nov. 1, 1972 (gage height, 21.95 ft or 6.690 m) from rating curve extended above 4,000 ft³/s (113 m³/s); minimum, 3.2 ft³/s (0.091 m³/s) Aug. 21, 1972; minimum gage height, 2.15 ft (0.655 m) Aug. 12, 13, 1975.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	352	116	936	2230	1470	555	219	52	94	8.2	48
2	56	254	107	610	1570	1190	468	201	44	80	8.0	26
3	46	2430	100	527	1160	879	393	193	50	71	6.8	20
4	40	5860	90	409	911	684	344	174	46	62	10	17
5	35	2420	93	351	981	561	307	159	39	53	8.3	14
6	32	1280	260	321	808	479	283	150	34	44	7.6	11
7	28	630	530	280	624	482	259	157	32	42	7.2	8.7
8	26	616	360	267	530	442	252	139	47	35	6.7	7.9
9	23	472	284	242	449	407.	234	129	58	31	6.7	7.2
10	22	953	240	891	388	440	209	118	1620	28	6.4	8.3
11	20	1530	438	675	348	904	195	110	736	25	6.4	237
12	18	960	540	446	315	4350	188	101	406	22	6.7	998
13	40	631	487	357	287	2520	177	92	291	19	6.4	244
14	337	471	333	310	279	1540	188	86	231	18	7.9	158
15	296	373	301	286	256	1210	177	80	192	16	12	112
16	196	320	260	256	257	1670	164	71	161	13	15	105
17	150	290	233	240	317	2140	159	65	2430	14	60	86
18	121	256	217	226	273	1770	154	61	929	13	15	59
19	96	242	204	215	251	1670	188	55	400	14	11	453
20	81	220	187	206	232	1170	164	49	340	22	12	394
21	66	197	176	190	226	891	149	164	268	16	11	237
22	56	183	164	179	2930	700	139	187	222	12	9.7	170
23	51	172	163	162	3100	509	134	131	239	12	7.9	120
24	47	162	159	160	1670	472	753	100	252	14	7.2	94
25	41	145	150	174	1190	384	1040	90	220	11	7.2	72
26	48	131	137	171	1100	348	523	81	266	9.4	7.9	57
27	92	124	133	160	1180	1080	317	69	178	9.0	6.8	47
28	82	115	126	164	1320	1750	283	58	146	10	7.6	60
29	86	114	130	159	---	1440	263	94	125	11	13	333
30	76	131	134	1030	---	958	238	88	107	11	75	291
31	235	---	773	5090	---	718	---	64	---	8.8	67	---
TOTAL	2604	22195	7553	15684	25262	35308	8897	3534	10241	840.2	447.6	4501.1
MEAN	84.0	740	244	506	902	1139	297	114	341	27.1	14.4	150
MAX	337	5860	773	5090	3100	4350	1040	219	2430	94	75	998
MIN	18	114	90	159	226	348	134	49	32	8.8	6.4	7.2
CFSM	.35	3.12	1.03	2.14	3.81	4.81	1.25	.48	1.44	.11	.06	.63
IN.	.41	3.48	1.19	2.46	3.97	5.54	1.40	.55	1.61	.13	.07	.71
AC-FT	5170	44020	14980	31110	50110	70030	17650	7010	20310	1670	888	8930

CAL YR 1974 TOTAL 116173.8 MEAN 318 MAX 7230 MIN 6.2 CFSM 1.34 IN 18.23 AC-FT 230400
WTR YR 1975 TOTAL 137066.9 MEAN 376 MAX 5860 MIN 6.4 CFSM 1.59 IN 21.51 AC-FT 271900

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	0830	15.62	7,730	3-12	0445	11.61	4,740
1-31	0630	14.46	6,910	3-27	2145	9.25	3,040
2-22	2045	12.58	5,470	6-17	0700	9.43	3,250

06918990 Stockton Lake near Stockton, Mo.

LOCATION.--Lat 37°41'38", long 93°45'55", SW¼SE¼SW¼ sec.10, T.34 N., R.26 W., Cedar County, in power house at dam on Sac River, 2 mi (3.2 km) east of Stockton.

DRAINAGE AREA.--1,160 mi² (3,004 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Nonrecording gage prior to May 30, 1973. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents observed, 1,073,000 acre-ft (1,320 hm³) Mar. 20 (elevation, 874.03 ft or 266.404 m); minimum, 803,000 acre-ft (990 hm³) Oct. 12 (elevation, 863.50 ft or 263.195 m).

Period of record: Maximum contents, 1,450,000 acre-ft (1,790 hm³) Apr. 28, 1973 (elevation, 885.94 ft or 270.034 m); minimum, since initial filling to minimum power pool level, 352,000 acre-ft (434 hm³) Aug. 27 to Sept. 4, 1970 (elevation, 839.60 ft or 255.910 m).

REMARKS.--Lake is formed by a rock shell earth-fill dam (crest elevation, 911 ft or 277.7 m). Spillway is equipped with 4 tainter gates, 40 ft (12.2 m) by 30.5 ft (9.30 m), crest elevation, 861.5 ft or (262.59 m). Embankment closed and river diverted on Sept. 23, 1968. Gates closed and storage began on Dec. 12, 1969; minimum power elevation 830.0 ft (252.98 m) reached on May 1, 1970. Gross storage at top of flood control pool is 1,166,659 acre-ft (1,440 hm³) at elevation 892 ft (271.88 m), of which 779,550 acre-ft (961 hm³) between elevations 867 ft (264.3 hm³) and 892 ft (271.9 m) is used for flood control, and 887,109 acre-ft (1,093 hm³) between elevations 760 ft (231.6 m) and 867 ft (264.3 m) is used for multipurpose and power. Sedimentation reserve is 25,000 acre-ft (30.8 hm³). Lake is used for flood control, power, and recreational purposes. Contents computed from daily readings at 0800. Records of water temperature are published in Section 2 of this report.

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in acre-ft)

863	791,300	865	963,400
865	883,400	875	1,100,000

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	813000	823000	940000	936000	938000	1010000	1050000	924000	873000	878000	849000	841000
2	808000	826000	938000	937000	956000	1030000	1050000	920000	874000	876000	848000	841000
3	809000	829000	936000	938000	964000	1030000	1040000	915000	872000	871000	848000	837000
4	809000	865000	934000	936000	965000	1040000	1030000	917000	872000	871000	847000	836000
5	809000	890000	932000	939000	966000	1040000	1030000	918000	870000	871000	847000	833000
6	808000	903000	930000	940000	967000	1040000	1020000	914000	868000	872000	845000	832000
7	808000	913000	932000	938000	967000	1040000	1010000	910000	866000	872000	845000	833000
8	808000	919000	935000	933000	965000	1030000	1010000	907000	867000	870000	845000	833000
9	808000	926000	939000	930000	970000	1040000	1000000	902000	868000	869000	844000	837000
10	808000	928000	942000	926000	973000	1040000	991000	900000	868000	866000	843000	832000
11	808000	934000	944000	923000	969000	1040000	983000	901000	870000	866000	843000	836000
12	803000	941000	950000	925000	965000	1040000	975000	902000	873000	866000	842000	836000
13	808000	946000	955000	927000	964000	1050000	969000	898000	874000	865000	841000	839000
14	809000	949000	958000	925000	960000	1060000	971000	893000	874000	865000	841000	841000
15	810000	952000	961000	921000	956000	1060000	967000	889000	875000	864000	842000	842000
16	811000	956000	963000	916000	960000	1060000	958000	884000	875000	863000	841000	841000
17	812000	958000	962000	912000	963000	1060000	950000	880000	882000	861000	841000	841000
18	813000	960000	959000	908000	965000	1070000	942000	880000	895000	860000	841000	835000
19	813000	963000	956000	909000	961000	1070000	935000	880000	897000	857000	842000	829000
20	814000	965000	953000	910000	956000	1070000	936000	879000	895000	858000	843000	829000
21	814000	965000	949000	907000	952000	1070000	937000	876000	891000	858000	839000	830000
22	814000	962000	952000	901000	949000	1070000	932000	874000	892000	856000	837000	831000
23	814000	961000	953000	895000	976000	1070000	927000	873000	893000	855000	834000	826000
24	815000	958000	950000	890000	996000	1060000	926000	873000	890000	852000	834000	820000
25	815000	956000	945000	886000	1000000	1050000	928000	874000	888000	852000	834000	814000
26	815000	954000	946000	887000	1010000	1050000	929000	874000	886000	852000	832000	809000
27	815000	951000	943000	887000	1010000	1040000	932000	875000	883000	852000	833000	803000
28	815000	948000	939000	886000	1010000	1050000	937000	874000	881000	852000	833000	806000
29	817000	945000	940000	888000	---	1060000	932000	873000	881000	850000	834000	809000
30	818000	943000	941000	887000	---	1060000	928000	873000	882000	849000	832000	806000
31	819000	---	938000	912000	---	1050000	---	873000	---	849000	841000	---
(†)	864.20	869.23	869.00	868.00	871.80	873.38	868.62	866.42	866.80	865.45	865.10	863.65
(‡)	+2.0	+124.0	-5.0	-26.0	+99.0	+43.0	-126.0	-55.0	+9.0	-33.0	-8.0	-35.0
MAX	819000	965000	963000	940000	1010000	1070000	1050000	924000	897000	878000	849000	842000
MIN	803000	823000	930000	886000	938000	1010000	926000	873000	866000	849000	832000	803000

CAL YR 1974..........‡ -122
WTR YR 1975..........‡ -11

† Elevation, in feet, at end of month.
‡ Change in contents, in thousands of acre-feet.

06919000 Sac River near Stockton, Mo.

LOCATION.--Lat 37°41'51", long 93°45'43", in SE¼NW¼SE¼ sec.10, T.34 N., R.26 W., Cedar County, on left bank 0.5 mi (0.8 km) upstream from bridge on State Highway 32, 0.5 mi (0.8 km) downstream from Stockton Dam, 2.0 mi (3.2 km) upstream from Bear Creek, 2.0 mi (3.2 km) east of Stockton, and at mile 49.5 (79.6 km).

DRAINAGE AREA.--1,160 mi^2 (3,000 km^2), approximately.

PERIOD OF RECORD.--July 1921 to current year.

GAGE.--Water-stage recorder. Datum of gage is 764.12 ft (232.904 m) above mean sea level. Prior to Sept. 30, 1973 all previous gages at site 0.5 mi (0.8 km) downstream and at present datum. Prior to May 4, 1960 nonrecording gage.

AVERAGE DISCHARGE.--54 years, 991 ft^3/s (28.1 m^3/s), 718,000 acre-ft/yr (885.3 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 9,020 ft^3/s (255 m^3/s) Mar. 4 (gage height, 16.54 ft or 5.041 m). minimum, 13 ft^3/s (0.368 m^3/s) Oct. 29; minimum gage height, 0.17 ft (0.052 m) Oct. 16, 17.
Period of record: Maximum discharge, 120,000 ft^3/s (3,400 m^3/s) May 19, 1943 (gage height, 31.8 ft or 9.693 m); no flow Sept. 9-23, 1954, Oct. 14, 17-20, 1956.
Maximum stage known prior to 1943, 29.3 ft (8.93 m) in July 1909.

REMARKS.--Records poor. Flow regulated by Stockton Lake since Dec. 12, 1969.

REVISIONS (WATER YEARS).--WSP 926: 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2500	46	1820	144	50	596	5170	3750	39	1380	92	52
2	141	46	1820	2770	50	951	5140	3740	957	1140	96	1910
3	39	50	1800	3000	3390	1760	5140	325	981	1140	90	693
4	37	50	1790	136	3780	2350	5160	199	770	72	87	1040
5	37	50	1790	66	3840	3110	5250	2030	1190	56	478	339
6	40	50	1460	2940	3820	3510	5240	2870	1020	58	89	56
7	48	50	383	3070	3730	3540	5220	2900	61	685	75	48
8	52	50	204	3290	273	263	5200	2890	53	692	74	50
9	50	50	135	3820	112	123	5160	2020	46	898	79	53
10	50	50	88	3980	3380	4770	5180	167	39	308	74	60
11	2650	50	50	263	3610	4990	5200	58	39	105	75	797
12	182	50	50	79	2730	5100	4670	2760	39	67	534	101
13	36	50	616	3680	3670	5140	121	2680	43	47	44	66
14	61	50	50	3710	3490	5110	3300	2520	45	46	53	64
15	39	50	50	3720	247	5150	5210	2760	43	682	323	66
16	18	50	2780	3750	112	5220	5210	2530	529	479	116	621
17	48	50	2900	3740	105	5180	5200	191	961	443	107	2750
18	31	50	2710	167	3520	5170	4830	61	951	915	107	3070
19	31	51	2810	59	3610	5170	132	1730	1650	52	107	3060
20	31	992	2640	3630	3610	5160	45	1470	2250	41	1580	166
21	32	1880	98	3780	3570	5140	3290	1430	136	845	1090	64
22	29	1840	50	3760	500	5170	3300	979	50	737	1290	2930
23	27	1840	2820	3770	50	5140	2170	75	1960	983	70	3170
24	25	1850	2890	3790	200	5160	3130	43	1580	80	53	3200
25	22	1820	101	167	1619	5180	3480	41	1790	58	509	3200
26	21	1790	2460	53	3590	5180	271	41	1570	59	272	3160
27	20	1830	2070	885	3710	2510	104	663	1770	48	77	216
28	20	1820	96	896	3790	5200	3070	660	80	684	76	111
29	17	1820	48	961	---	5180	3660	712	46	710	1000	3200
30	16	1830	2710	900	---	5180	3580	710	1710	105	107	3310
31	42	---	2840	200	---	5160	---	51	---	90	58	---
TOTAL	6478	20315	42849	65156	64149	126241	111833	43836	22398	13795	9190	37823
MEAN	209	677	1382	2102	2291	4072	3728	1414	747	445	296	1261
MAX	2650	1880	2890	3980	3840	5220	5250	3750	2250	1380	1580	3310
MIN	16	46	48	53	50	123	45	41	39	41	53	48
AC-FT	12830	40290	84990	129200	127200	250400	221800	86950	44430	27360	18230	75020

CAL YR 1974 TOTAL 626780 MEAN 1717 MAX 5340 MIN 14 AC-FT 1243000
WTR YR 1975 TOTAL 564055 MEAN 1545 MAX 5250 MIN 16 AC-FT 1119000

06919020 Sac River below Stockton, Mo.

LOCATION.--Lat 37°44'11", long 93°46'26", NW¼ sec 3, T.34 N., R.26 W., Cedar County, on right bank 500 ft (152.4 m) upstream from bridge on State Highway J, 4.5 mi (7.2 km) downstream from Bear Creek, 6.3 mi (10.1 km) downstream from Stockton Lake, 3 mi (4.8 km) north of Stockton and at mile 44.9 (72.2 km).

DRAINAGE AREA.--1,292 mi² (3,346 km²) approximately.

PERIOD OF RECORD.--October 1973 to current year. Occasional discharge measurements water year 1973.

GAGE.--Water-stage recorder. Datum of gage is 750.19 ft (228.658 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 7,650 ft³/s (217 m³/s) Mar. 4 (gage-height, 19.92 ft or 6.072 m); minimum, 42 ft³/s (1.19 m³/s) Oct. 26, 27, 28, 30, 31 (gage height, 5.44 ft or 1.658 m).
Period of record: Maximum observed discharge, 7,720 ft³/s (219 m³/s) Nov. 11, 1972 (gage height, 21.20 ft or 6.462 m); minimum discharge not determined.

REMARKS.--Records fair. Flow partly regulated by Stockton Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2770	89	1920	703	1500	1380	5240	3520	66	1280	88	86
2	602	83	1910	2590	961	756	5190	3610	899	960	90	1690
3	65	3680	1890	3180	3290	2160	5180	830	998	986	89	1050
4	62	3860	1880	754	4000	3330	5190	166	883	197	86	1210
5	59	1210	1880	273	4190	4990	5230	2190	1350	64	644	661
6	58	560	1060	2730	4160	3530	5240	2760	1140	61	153	117
7	60	340	714	3120	4000	3530	5210	2760	220	646	75	79
8	64	240	373	3070	1190	791	5200	2740	78	827	75	76
9	62	229	225	3780	363	195	5170	2680	66	703	78	77
10	61	294	180	4000	3820	4130	5180	501	57	306	79	360
11	2040	506	613	1060	3990	5000	5190	75	55	302	79	810
12	747	297	821	242	3100	5430	5040	2240	53	67	529	326
13	62	216	797	3170	3560	5340	589	2660	54	66	153	89
14	107	173	360	3780	3480	5230	2470	2530	56	65	81	83
15	86	130	257	3780	831	5270	5150	2720	55	612	343	82
16	66	120	2540	3810	169	5400	5180	2510	505	567	106	620
17	71	111	2950	3800	295	5370	5180	744	1580	575	116	2040
18	62	105	2870	890	2990	5270	3120	68	1050	905	114	3040
19	59	102	2960	185	3620	5260	680	1310	1590	192	109	3120
20	57	790	2850	3170	3640	5230	180	1720	2120	57	1030	843
21	56	2020	512	3060	3610	5200	2040	1500	614	703	1290	88
22	53	2000	165	3060	1700	5210	3510	1230	70	822	1460	2340
23	53	1990	2560	3870	1970	5180	2330	315	1690	983	295	3060
24	52	1970	2990	3910	2140	5160	3230	70	1680	230	86	3090
25	51	1950	595	931	2100	5160	3610	66	1050	57	607	3100
26	50	1940	2230	188	3370	5190	910	63	1670	57	614	3060
27	50	1930	2950	1110	3890	3810	170	544	1050	57	117	816
28	51	1920	582	1150	3990	5300	2570	735	430	610	98	113
29	52	1930	130	1260	---	5410	3080	785	62	712	982	2580
30	51	1930	2450	1990	---	5290	3590	887	1570	114	412	3250
31	84	---	2950	5050	---	5260	---	286	---	91	95	---
TOTAL	7823	32761	47972	74854	75279	131122	112947	44243	24287	13956	10253	38572
MEAN	252	1091	1547	2415	2689	4230	3765	1427	810	450	331	1286
MAX	2770	3860	2990	5050	4190	5430	5240	3610	2120	1280	1460	3250
MIN	50	83	130	185	169	195	180	63	53	57	75	76
AC-FT	15520	64980	95150	148500	149300	260100	224000	87760	48170	27680	20340	76510

CAL YR 1974 TOTAL 706880 MEAN 1937 MAX 5840 MIN 35 AC-FT 1402000
WTR YR 1975 TOTAL 614049 MEAN 1682 MAX 5430 MIN 50 AC-FT 1218000

06919500 Cedar Creek near Pleasant View, Mo.

LOCATION.--Lat 37°50'03", long 93°52'31", in NE¼ sec.2, T.35 N., R.27 W., Cedar County, on downstream side of right pier of bridge on State Highway 39, 1.5 mi (2.4 km) north of Pleasant View, 1.8 mi (2.9 km) downstream from Alder Creek, and 5.8 mi (9.3 km) upstream from mouth.

DRAINAGE AREA.--420 mi² (1,090 km²), approximately.

PERIOD OF RECORD.--April 1923 to September 1926, October 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 739.5 ft (225.40 m) above mean sea level. Apr. 22, 1923, to Sept. 30, 1926, and Oct. 1, 1948, to May 10, 1950, nonrecording gage at site 50 ft (15 m) downstream at same datum. May 11, 1950 to Dec. 17, 1952 nonrecording gage, at present site and datum.

AVERAGE DISCHARGE.--30 years, 305 ft³/s (8.64 m³/s), 9.86 in/yr (250 mm/yr), 221,000 acre-ft/yr (272 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 15,400 ft³/s (436 m³/s) Nov. 4 (gage height, 23.95 ft or 7.300 m); minimum, 0.44 ft³/s (0.012 m³/s) Aug. 13 (gage height, 2.82 ft or 0.860 m).
Period of record: Maximum discharge, 33,900 ft³/s (960 m³/s) July 17, 1958 (gage height, 27.35 ft or 8.336 m); no flow at times in 1953-54, 1956, 1959-61, 1963.
Maximum stage known, 27.7 ft (8.44 m) July 20, 1909, from floodmark.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1146: 1923-26, drainage area. WSP 1176: 1924(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	740	116	523	7630	2350	627	275	74	82	1.5	277
2	96	868	115	470	3800	1430	522	245	40	48	1.4	144
3	71	7050	114	563	1120	841	443	217	26	32	1.2	80
4	55	13800	110	760	818	644	402	228	22	24	.95	49
5	44	10000	110	502	838	558	356	210	19	19	.95	85
6	38	4910	1170	393	923	484	315	167	16	16	.95	57
7	34	951	3510	338	618	431	284	160	14	13	.86	34
8	31	686	1750	299	518	372	271	116	12	12	.73	24
9	29	561	716	272	438	338	265	183	12	8.9	.65	17
10	25	419	524	584	371	366	243	137	36	7.6	.63	547
11	22	1170	1600	1290	355	393	219	106	30	5.8	.57	1310
12	23	923	2840	601	343	1070	200	87	24	4.8	.50	1170
13	110	586	1180	373	320	2230	185	72	20	3.8	.44	359
14	631	456	713	301	308	1520	193	61	15	3.5	1.2	195
15	1060	376	580	276	299	962	207	52	11	3.3	1.4	137
16	469	327	472	254	318	1860	196	45	44	3.2	1.4	102
17	284	294	391	231	662	3190	179	41	2660	3.3	1.2	83
18	212	270	339	219	680	1740	166	38	1230	3.4	1.2	69
19	164	254	307	219	482	919	142	36	318	3.7	219	85
20	138	234	279	217	397	735	138	35	178	4.1	56	171
21	115	211	254	205	348	579	123	31	125	4.0	18	129
22	98	193	234	184	1460	477	112	28	84	3.5	6.4	92
23	85	179	217	167	5100	411	121	25	81	3.5	2.7	66
24	76	160	203	163	2520	359	573	24	103	3.1	1.5	50
25	67	143	189	182	1110	303	1320	38	61	2.8	1.1	40
26	60	131	172	192	1090	270	816	27	40	2.6	2.0	32
27	55	122	164	178	1590	1390	398	25	33	2.5	1.9	27
28	52	113	162	159	2240	4710	319	24	30	2.3	11	24
29	55	109	161	151	---	3690	296	26	155	2.1	45	64
30	57	114	155	806	---	1450	282	31	173	1.9	1990	306
31	156	---	271	8610	---	823	---	48	---	1.7	922	---
TOTAL	4554	46550	19118	19690	36696	36875	9953	2818	5686	331.4	3294.33	5825
MEAN	147	1552	617	635	1311	1190	332	90.9	190	10.7	106	194
MAX	1060	13800	3510	8610	7630	4710	1320	275	2660	82	1990	1310
MIN	22	109	110	151	299	270	112	24	11	1.7	.44	17
CFSM	.35	3.70	1.47	1.51	3.12	2.83	.79	.22	.45	.03	.25	.46
IN.	.40	4.12	1.69	1.74	3.25	3.27	.88	.25	.50	.03	.29	.52
AC-FT	9030	92330	37920	39060	72790	73140	19740	5590	11280	657	6530	11550

CAL YR 1974 TOTAL 188734.00 MEAN 517 MAX 16700 MIN 2.5 CFSM 1.23 IN 16.72 AC-FT 374400
WTR YR 1975 TOTAL 191390.73 MEAN 526 MAX 13800 MIN .44 CFSM 1.25 IN 16.95 AC-FT 379600

PEAK DISCHARGE (BASE, 3,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	0630	23.95	15,400	2-23	1330	18.53	5,640
12-7	1130	15.36	3,760	3-28	1500	17.81	5,130
1-31	1830	22.83	11,600				

06919900 Sac River near Caplinger Mills, Mo.

LOCATION.--Lat 37°52'12", long 93°48'11", in NW¼NE¼SW¼ sec.21, St. Clair County, on right downstream wingwall of bridge on State Highway W, 1.5 mi (2.4 km) downstream from Cedar Creek and 5 mi (8.0 km) north of Caplinger Mills.

DRAINAGE AREA.--1,810 mi² (4,690 km²).

PERIOD OF RECORD.--October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 720.82 ft (219.602 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 17,900 ft³/s (507 m³/s) Nov. 4 (gage height, 25.99 ft or 7.921 m, from floodmark); minimum, 86 ft³/s (2.44 m³/s) Aug. 8-10 (gage height, 5.34 ft or 1.628 m).

REMARKS.--Records good except during periods of no gage-height record, which are poor. Flow partly regulated by Stockton Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2900	800	2000	2310	12400	5180	5930	3690	201	1750	103	393
2	700	1000	1980	1760	6840	2600	5790	3770	166	1360	99	545
3	150	10000	1930	3380	3550	3140	5680	2350	1010	1310	99	1640
4	120	17000	1940	2660	4680	2960	5610	516	946	951	98	881
5	100	14500	1930	864	4910	2930	5590	1160	978	156	108	1140
6	100	5500	3060	1710	5000	4040	5560	2840	1200	138	581	460
7	100	1560	4840	3710	4700	4020	5510	2810	913	140	96	143
8	100	1220	2910	3090	2000	2580	5470	2780	159	689	87	125
9	90	1020	1250	3820	1000	705	5460	2420	138	752	86	114
10	90	970	891	5200	3000	3120	5430	1770	132	794	87	361
11	2000	1700	2260	3380	4500	5490	5420	315	138	372	87	2100
12	800	1200	4300	1180	3480	6560	5380	1040	134	136	90	2260
13	200	800	2260	2160	3820	7780	2040	2700	125	117	479	590
14	700	600	1530	3950	3840	7080	1490	2550	123	114	110	320
15	1200	500	1020	3890	2310	6330	5260	2660	123	126	96	245
16	550	450	1820	3910	648	7090	5340	2530	126	622	323	211
17	400	400	3200	3870	1050	8580	5340	1980	4360	496	136	1760
18	300	400	3100	1820	2720	7450	5320	229	2630	590	134	2920
19	250	400	3070	600	4120	6310	2180	344	1600	732	299	3280
20	200	1000	3060	3000	4030	6010	403	1680	2020	112	400	2340
21	180	2200	1880	4000	3960	5830	1490	1570	1950	99	1380	287
22	150	2200	503	4000	4230	5720	3600	1450	252	876	1340	1120
23	140	2200	1420	4000	7740	5600	2600	977	632	803	946	3090
24	130	2100	2960	4000	5660	5550	3600	183	1860	860	121	3130
25	120	2100	1990	1500	4000	5490	4030	161	1810	125	107	3130
26	110	2070	1180	500	3880	5450	3210	151	1760	107	866	3120
27	100	2030	2780	1000	5660	5270	758	141	1780	105	312	2170
28	100	2010	1940	1300	6450	9380	1600	665	1580	121	151	182
29	110	2000	404	1400	---	10000	3810	733	205	658	273	1140
30	110	2010	1280	2400	---	7190	3870	844	508	622	2800	3520
31	250	---	2960	10000	---	6190	---	812	---	114	1500	---
TOTAL	12550	81940	67648	90364	120178	171625	123561	47821	29559	15947	13394	42717
MEAN	405	2731	2182	2915	4292	5536	4119	1543	985	514	432	1424
MAX	2900	17000	4840	10000	12400	10000	5930	3770	4360	1750	2800	3520
MIN	90	400	404	500	648	705	403	141	123	99	86	114
AC-FT	24890	162500	134200	179200	238400	340400	245100	94850	58630	31630	26570	84730

WTR YR 1975 TOTAL 817304 MEAN 2239 MAX 17000 MIN 86 AC-FT 1621000

06920500 Osage River at Osceola, Mo.

LOCATION.--Lat 38°03'44", long 93°41'37", in NE¼NE¼ sec.17, T.38 N., R.25 W., St. Clair County, on left bank at downstream side of bridge on State Highway 13, 0.5 mi (0.8 km) downstream from Gallinipper Creek, 1 mi (1.6 km) downstream from hydroelectric plant of Missouri Public Service Co., 1 mi (1.6 km) northeast of Osceola, and at mile 230.9 (371.5 km).

DRAINAGE AREA.--8,220 mi² (21,300 km²), approximately.

PERIOD OF RECORD.--October 1917 to September 1928, October 1930 to current year. Monthly discharge only for some periods, published in WSP 1310. Gage-height records collected at site 1.2 mi (1.9 km) upstream April 1910 to November 1930, at present site November 1930 to April 1933 and since February 1938 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 679.23 ft (207.029 m) above mean sea level. Prior to Oct. 1, 1929, nonrecording gage at site 1.2 mi (1.9 km) upstream at datum 3.67 ft (1.119 m) higher. Nov. 28, 1930, to Sept. 27, 1934, water-stage recorder 233 ft (71.0 m) right on downstream side of bridge pier at present datum.

AVERAGE DISCHARGE.--56 years, 5,324 ft³/s (150.8 m³/s), 3,857,000 acre-ft/yr (4,756 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 48,800 ft³/s (1,380 m³/s) Nov. 6 (gage height, 26.11 ft or 7.958 m); minimum, 245 ft³/s (6.94 m³/s) Aug. 5 (gage height 2.34 ft or 0.713 m).

Period of record: Maximum discharge, 146,000 ft³/s (4,135 m³/s) May 21, 1943 (gage height, 41.48 ft or 12.643 m, in gage well, 41.7 ft or 12.71 m, from outside gage); minimum, 3.6 ft³/s (0.102 m³/s) Nov. 16-19, 1956; minimum gage height, 0.22 ft (0.067 m) Aug. 11, 1941.

Maximum stage known, about 45 ft (13.7 m) in June 1844 (discharge, about 150,000 ft³/s or 4,250 m³/s).

REMARKS.--Records fair. Low and medium flow regulated by powerplant 1 mi (1.6 km) upstream.

REVISIONS (WATER YEARS).--WSP 606: 1922.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7310	3590	3110	7660	32300	22800	20400	7470	8270	6320	282	7960
2	6230	10500	3160	8800	30800	18800	18600	6950	7020	6200	273	3860
3	2620	27900	3140	11100	25600	15500	15200	6700	4390	5650	272	3410
4	1260	41800	3020	11600	25700	12400	12900	3600	3700	5260	260	2150
5	934	46600	2970	9130	27400	9990	11500	2890	3940	4780	248	1920
6	713	48400	7640	7790	28000	8840	10800	4780	6430	4710	269	1450
7	703	45700	18400	10200	24200	8580	10400	5060	7930	3940	454	988
8	739	44300	17500	10500	26000	8060	9080	4730	5790	3700	291	794
9	638	45600	12100	10200	18700	5030	9360	4530	3970	3770	269	726
10	604	46500	9770	11200	13200	5150	9310	3730	4780	3860	260	580
11	572	46700	10800	12400	10700	9020	9510	2250	7270	3400	257	1440
12	2000	43900	17400	9130	9900	11200	9230	1550	9960	2980	252	2450
13	1520	37900	16300	7120	8920	13500	7490	3210	12300	1650	254	2750
14	2020	30600	14300	8400	9320	13900	3710	3560	12700	938	279	1890
15	6400	23900	12900	7290	8860	13400	6550	3340	10400	736	673	1320
16	6970	17300	9730	6670	6040	14600	8530	3480	7110	769	1030	903
17	6260	11300	8560	6490	8500	19000	9350	3210	19700	945	840	994
18	5310	8700	7380	6180	10900	21100	9490	1610	18500	901	798	2860
19	3050	7590	6580	5500	13900	19900	8810	923	16500	1070	939	3480
20	1670	6600	6320	2950	13500	19200	3950	1690	17100	705	1520	3650
21	1250	6500	5750	5650	12200	17000	3070	2070	18300	398	2420	1820
22	1120	6960	3280	6290	13700	13300	5300	1890	17800	609	2020	1370
23	1130	6610	2720	4130	20600	10900	5480	1570	19000	864	1840	2870
24	1240	6230	4430	5760	20700	9560	5030	1070	21100	1010	940	3460
25	1340	5890	4630	5500	18200	8800	8930	1370	20900	779	498	3410
26	1250	4760	2560	2830	15800	8370	12800	5030	18400	487	24400	3370
27	1250	3640	3630	2140	17700	11000	10800	5890	10900	263	20400	3300
28	1290	3290	4290	2710	21100	21400	8840	3470	6150	263	16200	1240
29	1340	3300	2250	2680	---	26200	8390	2460	4840	287	10600	591
30	1140	3190	1810	3600	---	24400	8050	2860	5100	669	12900	3120
31	1690	---	4100	27600	---	21600	---	5840	---	675	15300	---
TOTAL	71563	645760	230530	239200	492440	442500	280860	108783	330250	68588	117238	70126
MEAN	2308	21520	7436	7716	17590	14270	9362	3509	11010	2213	3782	2338
MAX	7310	48400	18400	27600	32300	26200	20400	7470	21100	6320	24400	7960
MIN	572	3190	1810	2140	6040	5030	3070	923	3700	263	248	580
AC-FT	141900	1281000	457300	474500	976800	877700	557100	215800	655100	136000	232500	139100

CAL YR 1974 TOTAL 3335742 MEAN 9139 MAX 55400 MIN 311 AC-FT 6616000
WTR YR 1975 TOTAL 3097818 MEAN 8487 MAX 48400 MIN 248 AC-FT 6144000

PEAK DISCHARGE (BASE, 32,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-6	0730	26.11	48,800	1-31	1630	20.42	33,200

06921070 Pomme de Terre River near Polk, Mo.

LOCATION.--Lat 37°40'56", long 93°22'12", in NE¼NW¼NW¼ sec.17, T.34 N., R.22 W., Polk County, on right bank 150 ft (46 m) upstream from Jefferson Bridge on County Highway D and 5 mi (8.0 km) southwest of Polk.

DRAINAGE AREA.--276 mi² (715 km²).

PERIOD OF RECORD.--October 1968 to current year.

AVERAGE DISCHARGE.--7 years, 284 ft³/s (8.04 m³/s), 13.97 in/yr (355 mm/yr), 205,800 acre-ft/yr (254 hm³/yr).

GAGE.--Water-stage recorder. Datum of gage is 872.61 ft (265.971 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 12,200 ft³/s (346 m³/s) Jan. 31 (gage height, 16.00 ft or 4.877 m); minimum, 5.4 ft³/s (0.153 m³/s) Aug. 12, 13, 14 (gage height, 1.61 ft or 0.491 m).
Period of record: Maximum discharge, 20,300 ft³/s (575 m³/s) Nov. 1, 1972 (gage height, 21.88 ft or 6.669 m); minimum, 4.2 ft³/s (0.119 m³/s) Aug. 13, 14, 1969; minimum gage height, 1.26 ft (0.384 m) Sept. 1, 2, 1973.

REMARKS.--Records fair. Records of water temperature are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	170	89	1280	1010	1500	600	398	200	30	9.0	72
2	46	166	88	755	1430	1030	460	341	150	25	9.0	53
3	42	2120	80	741	1010	754	380	310	120	25	9.0	40
4	40	7170	78	576	814	610	316	384	100	25	8.7	32
5	37	1730	80	478	988	526	272	292	80	20	8.2	26
6	34	964	205	421	812	447	236	287	60	20	7.8	21
7	33	658	712	379	570	473	209	331	50	20	7.1	17
8	32	489	410	346	511	405	200	325	60	20	7.1	15
9	32	369	256	325	414	408	191	290	70	20	6.4	13
10	32	910	202	1030	339	429	172	260	200	20	6.1	204
11	31	1690	760	733	321	696	158	230	100	18	6.1	136
12	30	826	892	335	306	6120	147	200	80	18	5.7	573
13	30	550	556	219	270	2260	140	180	60	18	5.4	175
14	163	390	396	180	256	1270	155	160	50	17	5.7	85
15	221	280	315	161	234	1100	156	140	60	16	6.4	71
16	115	226	240	149	261	1910	137	120	100	15	6.8	65
17	85	196	208	132	459	1870	131	100	500	14	6.8	61
18	69	165	184	128	314	1290	127	90	200	13	27	57
19	58	149	168	128	264	1390	150	100	100	13	18	107
20	51	145	156	121	232	921	133	150	50	13	13	366
21	47	133	145	114	209	727	122	349	40	13	8.9	136
22	42	124	137	106	3900	590	120	160	30	13	8.2	89
23	38	116	129	102	4650	487	136	173	20	35	7.1	74
24	37	106	126	104	1400	366	560	164	20	21	6.8	72
25	37	98	124	125	1120	312	2000	181	20	16	6.0	61
26	36	92	117	124	1140	311	701	172	30	14	15	52
27	86	88	114	115	1330	1000	488	142	50	12	15	45
28	52	85	114	112	1600	2000	519	153	45	11	12	47
29	49	85	116	131	---	1500	572	191	40	9.0	22	748
30	48	91	132	1450	---	1040	484	288	35	9.0	641	615
31	70	---	948	8720	---	768	---	356	---	9.0	182	---
TOTAL	1774	20374	8373	19820	26964	34582	10180	6937	2720	542.0	1103.3	4120
MEAN	57.2	679	270	639	963	1116	339	224	90.7	17.5	35.6	138
MAX	221	7170	948	8720	4650	6120	2000	398	500	35	641	748
MIN	30	85	78	102	209	311	120	90	20	9.0	5.4	13
CFSM	.21	2.46	.98	2.32	3.49	4.04	1.23	.81	.33	.06	.13	.50
IN.	.24	2.75	1.13	2.67	3.63	4.66	1.37	.93	.37	.07	.15	.56
AC-FT	3520	40410	16610	39310	53480	68590	20190	13760	5400	1080	2190	8190

CAL YR 1974 TOTAL 115485.1 MEAN 316 MAX 9980 MIN 4.4 CFSM 1.14 IN 15.57 AC-FT 229100
WTR YR 1975 TOTAL 137497.3 MEAN 377 MAX 8720 MIN 5.4 CFSM 1.37 IN 18.53 AC-FT 272700

PEAK DISCHARGE (BASE, 5,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	1245	13.90	9,160	3-12	1445	13.17	8,740
1-31	0345	16.00	12,200	4-25	0230	11.24	6,400
2-22	2115	12.78	8,360				

06921200 Lindley Creek near Polk, Mo.

LOCATION.--Lat 37°45'02", long 93°15'58", in NE¼SE¼ sec.29, T.35 N., R.21 W., Polk County, on left bank 30 ft (9 m) upstream from county highway bridge, 0.5 mi (0.8 km) downstream from Panther Creek, 2.5 mi (4.0 km) northeast of Polk, and 11 mi (17.7 km) upstream from Ingalls Creek.

DRAINAGE AREA.--112 mi² (290 km²).

PERIOD OF RECORD.--April 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 884.08 ft (269.468 m) above mean sea level. Prior to September 25, 1957, nonrecording gage at site 30 ft (9 m) downstream at same datum.

AVERAGE DISCHARGE.--18 years, 94.7 ft³/s (2.68 m³/s), 11.48 in/yr (292 mm/yr), 68,610 acre-ft/yr (84.6 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,140 ft³/s (231 m³/s) Jan. 31 (gage height, 17.54 ft or 5.346 m); no flow on many days.

Period of record: Maximum discharge, 28,000 ft³/s (793 m³/s) May 5, 1961 (gage height, 23.60 ft or 7.193 m), from rating extended above 12,000 ft³/s (340 m³/s) on basis of slope-conveyance study; no flow on many days in most years.

Flood in September 1914, reached a stage of about 25.2 ft (7.68 m).

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	42	36	283	388	527	143	88	19	1.8	1.2	16
2	11	36	37	243	329	265	134	65	9.6	1.5	.75	9.1
3	9.6	1230	36	287	201	173	124	71	7.9	1.2	.50	6.4
4	12	1630	34	228	164	151	115	61	8.9	.96	.26	5.1
5	14	236	39	193	225	137	105	50	7.8	.79	.18	4.6
6	14	111	198	170	162	124	96	43	5.6	.69	.18	3.9
7	14	82	271	148	131	124	90	38	4.3	.64	.16	3.4
8	15	68	137	131	131	109	88	32	4.5	.49	.12	3.0
9	15	59	102	112	113	107	83	26	5.0	.36	.08	24
10	14	293	91	710	101	117	75	23	23	.23	.06	152
11	13	236	398	159	102	159	69	21	16	.16	.02	233
12	14	104	253	111	102	932	66	21	8.4	.10	0	186
13	16	83	143	92	94	434	63	18	4.9	.06	0	52
14	47	68	115	85	93	222	72	16	2.9	.02	0	29
15	45	60	102	80	98	240	70	13	3.2	0	0	21
16	28	56	88	77	102	636	61	11	11	0	0	18
17	20	53	78	78	184	428	56	10	119	0	.56	15
18	17	50	71	69	129	229	56	9.3	41	0	.26	11
19	13	48	67	73	116	185	51	9.7	15	0	.10	52
20	11	45	62	64	105	154	44	16	7.7	0	.04	48
21	10	40	57	60	98	139	40	76	5.8	0	.02	24
22	9.7	38	54	57	1820	125	35	23	3.6	0	0	18
23	8.7	36	50	53	799	116	53	11	3.0	0	0	15
24	8.5	33	48	59	278	106	189	9.3	3.0	0	0	14
25	8.8	29	45	87	234	95	375	21	2.9	0	0	12
26	9.3	29	42	70	259	91	113	21	4.7	0	42	11
27	9.0	28	42	61	333	417	87	11	6.0	0	5.6	9.5
28	9.6	27	41	60	463	960	98	7.5	4.7	0	2.1	18
29	11	29	43	86	---	359	84	10	4.3	46	4.3	831
30	11	35	44	630	---	200	113	19	2.6	29	437	234
31	30	---	289	3780	---	165	---	34	---	2.4	45	---
TOTAL	483.2	4914	3113	8388	7346	7826	2848	876.8	364.5	86.40	540.49	2079.0
MEAN	15.6	164	100	271	262	252	94.9	28.3	12.2	2.79	17.4	69.3
MAX	47	1630	398	3780	1820	932	375	88	119	46	437	831
MIN	8.5	27	34	53	90	91	35	7.5	2.6	0	0	3.0
CFSM	.14	1.46	.89	2.42	2.34	2.25	.85	.25	.11	.02	.16	.62
IN.	.16	1.63	1.03	2.79	2.44	2.60	.95	.29	.12	.03	.18	.69
AC-FT	958	9750	6170	16640	14570	15520	5650	1740	723	171	1070	4120

CAL YR 1974 TOTAL 43638.92 MEAN 120 MAX 3340 MIN 0 CFSM 1.07 IN 14.49 AC-FT 86560
WTR YR 1975 TOTAL 38865.39 MEAN 106 MAX 3780 MIN 0 CFSM .95 IN 12.91 AC-FT 77090

PEAK DISCHARGE (BASE, 2,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	1715	14.74	2,950	2-22	1945	14.65	3,690
1-31	0630	17.54	8,140				

06921325 Pomme de Terre Lake near Hermitage, Mo.

LOCATION.--Lat 37°54'06", long 93°19'05", in NE¼ sec.2, T.36 N., R.22 W., Hickory County, in intake tower at dam on Pomme de Terre River, and 3 mi (4.8 km) southwest of Hermitage.

DRAINAGE AREA.--611 mi² (1,583 km²).

PERIOD OF RECORD.--June 1960 to current year.

GAGE.--Water-stage recorder. Nonrecording gage prior to Nov. 9, 1961. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 324,000 acre-ft (399 hm³) Nov. 14 (elevation, 848.42 ft or 258.598 m); minimum, 231,000 acre-ft (285 hm³) Apr. 28 (elevation 837.75 ft or 255.346 m).
Period of record: Maximum contents, 481,000 acre-ft (593 hm³) Apr. 30, 1973 (elevation, 862.35 ft or 262.844 m), minimum, since initial filling to conservation pool level, 215,880 acre-ft (266 hm³) Mar. 3, 1964 (elevation, 835.61 ft or 254.694 m).

REMARKS.--Lake is formed by earth fill embankment with a concrete gravity section-type dam. Closure operation began on June 28, 1960; conservation pool level reached June 15, 1963. Capacity nominal top of flood control pool, 648,700 acre-ft (800 hm³) at elevation, 874 ft or 266.4 m, crest of spillway, of which 407,200 acre-ft (502 hm³) between elevations 839 ft or 255.7 m and 874 ft or 266.4 m is used for flood control, and 228,700 acre-ft (282 hm³) between elevations 783 ft or 238.7 m and 839 ft or 255.7 m is used for conservation and 12,840 acre-ft (15.8 hm³) below elevation 783 ft or 238.7 m is sediment storage. Lake used for flood control and recreational purposes. Contents computed from daily readings at 0800.

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in acre-ft)

837	226,200	840	249,500
838	233,800	850	339,600

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	245000	245000	243000	246000	296000	284000	252000	235000	243000	249000	238000	242000
2	245000	245000	243000	248000	302000	285000	249000	236000	243000	248000	238000	242000
3	245000	255000	243000	250000	307000	284000	245000	236000	243000	247000	238000	242000
4	245000	281000	243000	251000	309000	281000	242000	237000	243000	245000	237000	242000
5	245000	301000	243000	253000	307000	278000	241000	238000	243000	246000	237000	242000
6	244000	306000	243000	254000	304000	274000	242000	238000	243000	245000	237000	242000
7	244000	308000	248000	253000	299000	271000	242000	238000	243000	245000	237000	242000
8	244000	309000	251000	250000	294000	268000	242000	238000	243000	244000	236000	241000
9	244000	310000	253000	249000	288000	264000	242000	238000	243000	244000	236000	241000
10	244000	310000	254000	247000	283000	261000	242000	239000	243000	243000	236000	241000
11	243000	314000	255000	249000	277000	258000	242000	239000	244000	243000	235000	242000
12	243000	321000	263000	249000	272000	259000	242000	239000	245000	243000	235000	244000
13	244000	323000	264000	247000	265000	271000	242000	239000	245000	242000	235000	246000
14	244000	324000	264000	245000	265000	273000	242000	239000	245000	242000	235000	246000
15	245000	319000	264000	242000	260000	271000	242000	239000	245000	242000	235000	246000
16	245000	312000	263000	241000	254000	271000	242000	239000	244000	241000	235000	246000
17	245000	305000	262000	240000	249000	275000	242000	239000	248000	241000	235000	246000
18	245000	298000	261000	240000	244000	276000	242000	239000	253000	241000	235000	246000
19	245000	291000	259000	240000	243000	275000	242000	239000	254000	241000	235000	247000
20	245000	284000	258000	240000	243000	274000	242000	239000	254000	240000	235000	247000
21	245000	276000	257000	240000	243000	271000	242000	240000	254000	240000	235000	249000
22	245000	269000	255000	240000	244000	268000	243000	241000	254000	240000	235000	247000
23	245000	262000	253000	241000	269000	265000	243000	242000	254000	240000	234000	247000
24	245000	254000	252000	241000	278000	261000	239000	242000	254000	239000	234000	246000
25	245000	247000	250000	242000	282000	257000	239000	242000	254000	239000	234000	246000
26	244000	242000	248000	242000	282000	253000	239000	242000	254000	239000	237000	246000
27	244000	242000	247000	242000	281000	249000	243000	242000	254000	239000	237000	246000
28	244000	242000	245000	243000	282000	254000	231000	242000	253000	239000	237000	246000
29	244000	242000	243000	243000	---	257000	233000	243000	251000	238000	237000	248000
30	244000	242000	242000	245000	---	257000	234000	243000	250000	238000	239000	253000
31	244000	---	242000	271000	---	254000	---	243000	---	238000	241000	---
(†)	839.36	839.14	839.10	842.56	843.84	840.64	838.04	839.19	840.12	838.64	838.96	840.44
(‡)	-1	-2	0	+29	+11	-28	-20	+9	+7	-12	+3	+12
MAX	245000	324000	264000	271000	309000	285000	252000	243000	254000	249000	241000	253000
MIN	243000	242000	242000	240000	243000	249000	231000	235000	243000	238000	234000	241000

CAL YR 1974..........‡ -29
WTR YR 1975..........‡ +8

† Elevation, in feet, at end of month.
‡ Change in contents, in thousands of acre-feet.

06921350 Pomme de Terre River near Hermitage, Mo.

LOCATION.--Lat 37°54'20", long 93°19'45", in NW¼NW¼ sec.2, T.36 N., R.22 W., Hickory County, on right bank 2,000 ft (610 m) downstream from outlet of Pomme de Terre Lake, 2.5 mi (4.0 km) southwest of Hermitage, 4.5 mi (7.2 km) upstream from Green Branch, and at mile 43.4 (69.8 km).

DRAINAGE AREA.--615 mi^2 (1,590 km^2).

PERIOD OF RECORD.--August 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 749.33 ft (228.396 m) above mean sea level.

AVERAGE DISCHARGE.--15 years, 484 ft^3/s (13.7 m^3/s), 350,700 acre-ft/yr (432 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 4,030 ft^3/s (114 m^3/s) Nov. 14 (gage height, 10.27 ft or 3.130 m); minimum, 40 ft^3/s (1.13 m^3/s) June 3, 4, 5; minimum gage height, 2.14 ft (0.652 m) July 30.

Period of record: Maximum discharge, 9,000 ft^3/s (255 m^3/s) May 9, 1961 (gage height, 15.02 ft or 4.578 m); no flow Sept. 10, 1960, Mar. 9-17, 1971.

REMARKS.--Records fair. Flow regulated by Pomme de Terre Lake. Records of water temperature are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	111	116	107	132	163	2530	2350	43	51	564	47	55
2	111	117	107	133	164	2530	2350	43	51	564	47	56
3	110	145	109	135	163	2530	2340	44	51	564	45	59
4	112	128	109	135	1330	2520	1310	44	50	403	45	60
5	112	117	110	136	3530	2510	342	45	51	95	45	61
6	112	114	114	565	3510	2500	335	45	51	111	44	63
7	111	114	115	1570	3500	2500	332	46	52	119	45	64
8	111	113	114	1560	3490	2480	329	47	53	121	44	66
9	111	113	115	1570	3470	2470	328	48	53	120	44	67
10	111	116	115	1570	3460	2460	324	50	54	119	43	72
11	110	116	124	1580	3450	2450	322	50	54	118	43	74
12	112	115	476	1580	3430	2460	318	49	54	115	44	74
13	113	115	1090	1580	2160	2470	317	48	66	115	45	74
14	118	1460	1100	1580	1540	2460	311	49	87	114	45	75
15	114	3300	1110	1580	3450	2450	309	51	87	151	43	77
16	113	3710	1100	1070	3440	2450	306	52	91	130	43	78
17	112	3680	1110	387	3420	2450	304	52	111	52	43	79
18	111	3660	1110	386	2450	2440	197	52	91	51	43	81
19	110	3630	1110	391	613	2440	51	51	91	51	42	193
20	110	3610	1110	391	612	2430	48	52	91	51	42	376
21	110	3580	1110	392	611	2420	48	52	91	50	44	350
22	110	3540	1110	245	639	2420	47	52	91	50	45	351
23	109	3530	1110	149	633	2410	1400	52	93	51	46	354
24	109	3500	1120	149	633	2410	2210	52	92	51	47	356
25	110	3040	1120	152	1370	2400	2210	52	93	50	50	239
26	110	1080	1120	151	2520	2390	2200	52	232	50	63	138
27	110	106	1120	152	2520	2390	2200	51	561	50	50	135
28	113	106	1120	152	2530	2390	846	51	564	49	52	137
29	114	108	1130	155	---	2380	43	52	564	49	53	140
30	114	107	506	177	---	2380	43	53	564	47	57	140
31	117	---	132	186	---	2360	---	52	---	185	54	---
TOTAL	3461	43286	21253	20091	58801	75880	24070	1532	4205	4410	1443	4144
MEAN	112	1443	686	648	2100	2448	802	49.4	143	142	46.5	138
MAX	118	3710	1130	1580	3530	2530	2350	53	564	564	63	376
MIN	109	106	107	132	163	2360	43	43	50	47	42	55
AC-FT	6860	85860	42160	39850	116600	150500	47740	3040	8500	8750	2860	8220

CAL YR 1974 TOTAL 263767 MEAN 723 MAX 4340 MIN 46 AC-FT 523200
WTR YR 1975 TOTAL 262656 MEAN 720 MAX 3710 MIN 42 AC-FT 521000

06921590 South Grand River at Archie, Mo.

LOCATION.--Lat 38°28'44", long 94°20'03", in NW¼NW¼SE¼ sec.34, T.43 N., R.31 W., Cass County, on right bank 25 ft (8 m) downstream from bridge on State Highway B, 0.9 mi (1.4 km) east of Archie, 1.4 mi (2.3 km) upstream from Mormon Fork, and 7.4 mi (11.9 km) downstream from South Fork.

DRAINAGE AREA.--256 mi² (663 km²).

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 768.99 ft (234.388 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 304 ft³/s (8.61 m³/s), 16.11 in/yr (409 mm/yr), 220,200 acre-ft/yr (272 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7,490 ft³/s (212 m³/s) Nov. 3 (gage height, 12.58 ft or 3.834 m); minimum, 0.13 ft³/s (0.004 m³/s) Sept. 10; minimum gage height, 2.24 ft (0.683 m) July 21 and Sept. 10.

Period of record: Maximum discharge, 15,600 ft³/s (442 m³/s) Oct. 13, 1969 (gage height, 19.4 ft or 5.91 m); minimum, 0.03 ft³/s (0.001 m³/s) Sept. 4, 1971 (gage height, 2.15 ft or 0.655 m).

Floods of Nov. 13, 1928 and Sept. 15, 1961 reached stages of 27.6 ft (8.41 m) and 23.8 ft (7.25 m), respectively, at point 1 mi (1.6 km) northeast of gage, from information by local resident.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	102	33	731	889	728	217	112	59	7.2	1.6	2.3
2	11	115	33	311	396	366	455	91	37	5.5	2.4	1.6
3	9.6	4930	33	274	311	230	537	145	31	5.1	4.7	1.5
4	8.6	1590	31	254	316	188	295	159	34	4.4	2.4	1.3
5	7.7	515	32	275	505	179	233	103	37	3.4	2.2	1.3
6	7.8	238	53	1270	259	179	189	81	26	3.1	1.2	1.0
7	7.6	164	123	637	193	226	164	71	18	2.4	1.2	.55
8	7.5	131	93	386	189	214	164	69	17	1.9	1.2	.35
9	7.7	109	68	287	165	150	398	61	72	2.2	1.1	.23
10	6.2	164	54	620	136	159	207	47	286	1.9	1.8	.16
11	5.4	279	297	665	125	167	152	48	2510	2.1	3.8	445
12	5.4	165	446	226	114	308	130	51	336	1.9	19	201
13	4.8	117	225	207	105	366	119	48	143	1.5	75	40
14	5.8	91	157	180	103	248	147	48	91	1.0	35	10
15	8.2	77	168	160	102	491	184	36	67	.70	20	1.6
16	13	67	142	146	177	1190	140	33	55	.50	14	1.0
17	11	62	115	131	746	643	127	29	710	.40	10	1.0
18	8.5	59	96	131	484	346	121	27	296	.40	5.0	10
19	6.5	59	87	137	301	249	113	26	126	.30	4.0	1.3
20	5.8	55	87	133	362	201	105	21	79	.20	3.0	1.0
21	5.1	50	87	133	667	176	87	18	55	.20	2.2	1.0
22	4.7	46	87	115	459	154	81	17	66	.20	1.6	1.2
23	4.5	44	85	112	384	135	93	18	63	.40	1.2	1.0
24	4.7	39	131	114	254	118	1530	18	34	.70	.91	7.6
25	5.4	36	138	126	266	97	1260	18	25	2.9	1.2	5.4
26	5.9	35	102	131	583	89	324	16	21	1.0	14	4.3
27	5.8	31	94	110	771	551	221	16	19	1.1	3.3	3.5
28	7.1	31	94	99	799	1070	264	18	16	.90	2.9	3.6
29	8.3	32	98	96	---	814	231	88	13	1.1	5.4	3.2
30	7.8	31	101	953	---	393	142	178	11	1.3	5.2	5.7
31	25	---	1220	4820	---	201	---	135	---	7.2	3.2	---
TOTAL	247.4	9464	4610	13970	9921	10700	8430	1828	5360	63.10	249.71	758.69
MEAN	7.98	315	149	451	354	345	281	59.0	179	2.04	8.06	25.3
MAX	25	4930	1220	4820	889	1190	1530	178	2510	7.2	75	445
MIN	4.5	31	31	96	102	89	81	16	11	.20	.91	.16
CFSM	.03	1.23	.58	1.76	1.38	1.35	1.10	.23	.70	.008	.03	.10
IN.	.04	1.38	.67	2.03	1.44	1.56	1.22	.27	.78	.009	.04	.11
AC-FT	491	18770	9140	27710	19680	21240	16720	3630	10630	125	495	1500

CAL YR 1974 TOTAL 96029.64 MEAN 263 MAX 4970 MIN .25 CFSM 1.03 IN 13.95 AC-FT 190500
WTR YR 1975 TOTAL 65597.90 MEAN 180 MAX 4930 MIN .16 CFSM .70 IN 9.53 AC-FT 130100

PEAK DISCHARGE (BASE, 5,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	1345	12.58	7,490	1-31	0445	11.69	6,480

06921740 Brushy Creek near Blairstown, Mo.

LOCATION.--Lat 38°31'42", long 94°00'37", in NE¼SE¼ sec.9, T.43 N., R.28 W., Henry County, on left bank, upstream from culvert under State Highway B, 3 mi (4.8 km) upstream from mouth, and 3.5 mi (5.6 km) southwest of Blairstown.

DRAINAGE AREA.--1.15 mi² (2.98 km²).

PERIOD OF RECORD.--October 1960 to September 1975 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 790 ft (240.8 m) from topographic map.

AVERAGE DISCHARGE.--15 years, 1.17 ft³/s (0.033 m³/s), 13.82 in/yr (351 mm/yr), 848 acre-ft/yr (1.05 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 359 ft³/s (10.2 m³/s) Nov. 3 (gage height, 5.40 ft or 1.646 m); no flow on many days.

Period of record: Maximum discharge, 1,270 ft³/s (40 m³/s) May 5, 1961 (gage height, 9.90 ft or 3.018 m); no flow at times each year.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.30	.80	1.9	0	.40	.10	0			0
2	0	7.0	.20	.50	1.3	0	.80	.10	0			0
3	0	50	.20	1.3	1.0	0	.30	.10	0			0
4	0	14	.20	1.1	2.2	0	.30	.10	0			0
5	0	1.3	.20	4.7	1.5	0	.20	.10	0			0
6	0	.50	9.1	2.9	1.0	10	.20	.10	0			0
7	0	.30	1.5	1.0	.80	1.0	.20	0	0			0
8	0	.20	.50	.60	.40	0	.40	.10	4.6			0
9	0	.10	.30	.60	.20	0	1.5	0	.40			0
10	0	9.6	.30	1.7	.10	0	.40	.10	.20			0
11	0	1.5	13	.50	0	0	.30	.10	.10			24
12	0	.60	1.3	.40	0	0	.20	.10	0			.10
13	0	.50	.60	.50	0	0	.30	.10	0			0
14	.10	.40	.80	.20	0	0	.60	.10	0			0
15	0	.30	.40	.20	0	0	.40	.10	0			0
16	0	.20	.30	.20	0	0	.30	.10	0			0
17	0	.20	.30	.10	0	0	.20	.10	2.7			0
18	0	.20	.30	.20	0	0	.30	0	0			12
19	0	.20	.30	.30	0	0	.20	0	0			8.8
20	0	.20	.30	.60	0	0	.10	0	0			.10
21	0	.20	.20	.40	0	0	.10	0	0			0
22	0	.20	.20	.30	15	0	.10	0	11			0
23	0	.20	.40	.40	2.0	0	.80	0	.10			0
24	0	.10	.50	.60	1.0	0	14	0	0			0
25	0	.10	.30	.80	0	0	.50	0	0			0
26	0	.20	.30	.40	0	30	.30	0	0			0
27	0	.20	.30	.30	0	3.0	.20	0	0			0
28	0	.20	.30	.30	0	1.0	.20	0	0			0
29	0	.20	.30	.40	---	.50	.10	.30	0			0
30	0	.30	.30	38	---	.50	.10	0	0			0
31	.20	---	5.0	7.2	---	.40	---	0	---			---
TOTAL	.30	89.20	38.50	67.50	28.40	46.40	24.00	1.80	19.10	0	0	45.00
MEAN	.010	2.97	1.24	2.18	1.01	1.50	.80	.058	.64	0	0	1.50
MAX	.20	50	13	38	15	30	14	.30	11	0	0	24
MIN	0	0	.20	.10	0	0	.10	0	0	0	0	0
CFSM	.009	2.58	1.08	1.90	.88	1.30	.70	.05	.56	0	0	1.30
IN.	.010	2.88	1.24	2.18	.92	1.50	.78	.06	.62	0	0	1.45
AC-FT	.6	177	76	134	56	92	48	3.6	38	0	0	89

CAL YR 1974 TOTAL 655.10 MEAN 1.79 MAX 121 MIN 0 CFSM 1.56 IN 21.17 AC-FT 1300
WTR YR 1975 TOTAL 360.20 MEAN .99 MAX 50 MIN 0 CFSM .86 IN 11.64 AC-FT 714

PEAK DISCHARGE (BASE, 200 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	0330	5.40	359	9-18	2400	5.13	322

06922800 Big Buffalo Creek near Stover, Mo.

LOCATION.--Lat 38°20'04", long 93°05'04", NE¼SE¼SW¼ sec.12, T.41 N., R.20 W., Benton County, on right bank, 1.5 mi (2.4 km) southwest of Boylers Mill, 3 mi (4.8 km) upstream from mouth, and 9 mi (14.5 km) southwest of Stover.

DRAINAGE AREA.--24.2 mi^2 (62.7 km^2).

PERIOD OF RECORD.--March 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 716.6 ft (218.420 m) above mean sea level (levels by Missouri Conservation Commission).

AVERAGE DISCHARGE.--10 years, 22.0 ft^3/s (0.62 m^3/s), 12.35 in/yr (314 mm/yr), 15,940 acre-ft/yr (19.7 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 5,620 ft^3/s (159 m^3/s) Sept. 11 (gage height, 8.46 ft or 2.579 m); minimum, 1.9 ft^3/s (0.054 m^3/s) July 29, 30, 31 (gage height, 0.72 ft or 0.223 m).
Period of record: Maximum discharge, 12,400 ft^3/s (351 m^3/s) computation of peak flow over roadway, Sept. 4, 1965 (gage height, 10.1 ft or 3.08 m); minimum, 1.2 ft^3/s (0.034 m^3/s) Sept. 9, 1967.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	7.5	8.5	22	66	66	29	20	33	3.6	2.2	3.1
2	4.1	8.2	8.5	18	44	55	26	18	21	3.4	2.7	3.1
3	3.9	160	8.2	15	32	39	23	18	17	3.2	3.6	3.1
4	3.9	242	8.2	12	27	32	21	16	14	2.9	2.7	3.2
5	3.9	110	8.2	11	26	28	19	14	20	2.9	2.6	8.7
6	3.9	48	255	10	24	28	17	14	14	2.9	2.6	4.1
7	4.3	38	106	10	20	98	16	174	12	2.9	2.6	3.6
8	4.1	25	48	10	19	49	16	47	11	3.1	2.4	3.4
9	4.1	20	30	10	17	39	16	29	9.9	3.4	2.3	3.4
10	4.3	51	23	38	16	32	14	23	9.9	3.3	2.3	3.9
11	4.3	59	66	38	17	33	14	20	9.2	3.1	2.3	902
12	5.3	35	63	24	18	58	13	18	8.5	3.1	2.3	48
13	5.5	26	39	17	18	51	12	14	7.9	3.3	2.6	16
14	7.2	22	28	14	19	41	13	13	7.2	3.1	3.4	9.9
15	6.8	19	23	12	20	40	16	12	7.2	2.9	3.4	8.2
16	6.5	17	19	11	21	36	15	11	20	2.9	3.1	6.5
17	6.3	15	16	9.2	51	33	15	9.9	227	2.9	2.9	6.0
18	5.3	14	14	8.5	37	30	14	9.6	30	2.9	2.9	5.8
19	5.1	14	14	8.5	30	28	13	9.2	14	3.1	2.7	23
20	5.1	13	15	7.5	26	25	12	11	9.2	2.9	2.9	12
21	5.1	12	14	6.5	23	24	11	25	6.8	2.7	2.9	8.9
22	4.3	12	14	6.5	151	23	10	14	5.8	2.6	2.9	7.5
23	4.8	12	13	6.0	108	22	78	11	5.5	2.4	2.7	6.8
24	5.1	11	13	6.5	56	20	511	19	5.1	2.4	2.9	6.3
25	5.3	11	13	9.2	43	18	85	24	4.6	2.4	3.4	5.8
26	6.0	8.5	13	10	40	15	48	16	4.3	2.4	7.6	5.3
27	6.3	7.9	12	9.9	40	153	36	12	4.3	2.3	3.9	5.5
28	5.8	7.5	12	9.2	45	112	32	11	3.9	2.2	3.6	6.0
29	5.8	8.2	12	8.9	---	72	26	18	3.8	2.2	3.6	15
30	5.5	8.2	12	119	---	47	24	132	3.6	2.0	3.6	11
31	7.2	---	16	252	---	35	---	64	---	2.0	3.4	---
TOTAL	159.4	1042.0	944.6	749.4	1054	1382	1195	846.7	549.7	87.4	95.0	1155.3
MEAN	5.14	34.7	30.5	24.2	37.6	44.6	39.8	27.3	18.3	2.82	3.06	38.5
MAX	7.2	242	255	252	151	153	511	174	227	3.6	7.6	902
MIN	3.9	7.5	8.2	6.0	16	15	10	9.2	3.6	2.0	2.2	3.1
CFSM	.21	1.43	1.26	1.00	1.55	1.84	1.64	1.13	.76	.12	.13	1.59
IN.	.25	1.60	1.45	1.15	1.62	2.12	1.84	1.30	.84	.13	.15	1.78
AC-FT	316	2070	1870	1490	2090	2740	2370	1680	1090	173	188	2290

CAL YR 1974 TOTAL 10454.5 MEAN 28.6 MAX 400 MIN 1.6 CFSM 1.18 IN 16.07 AC-FT 20740
WTR YR 1975 TOTAL 9260.3 MEAN 25.4 MAX 902 MIN 2.0 CFSM 1.05 IN 14.23 AC-FT 18370

PEAK DISCHARGE (BASE, 1,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-24	0645	7.58	3,460	9-11	1000	8.46	5,620

06923500 Bennett Spring at Bennett Springs, Mo.

LOCATION.--Lat 37°43'03", long 92°51'26", in NW¼ sec.1, T.34 N., R.18 W., Dallas County, on left bank 300 ft (91 m) downstream from spring outlet, 1.5 mi (2.4 km) upstream from Niangua River and at Bennett Springs.

PERIOD OF RECORD.--September 1916 to March 1920, October 1928 to September 1941, October 1965 to current year. Prior to March 1920 and October 1939 to September 1941 monthly discharge only published in WSP 1310. Occasional discharge measurements 1923, 1934, 1964, 1965.

GAGE.--Nonrecording gage. Datum of gage 864.71 ft (263.564 m) above mean sea level. Sept. 1916 to Mar. 1920, in the vicinity, datum unknown; Oct. 17, 1928, to Apr. 11, 1934, at site 1,780 ft (543 m) downstream at datum 2.30 ft (0.70 m) lower; Apr. 12 to Dec. 13, 1934, nonrecording gage, and Dec. 14, 1934 to Sept. 17, 1941, water-stage recorder at present site and datum.

AVERAGE DISCHARGE.--26 years (1916-19, 1928-41, 1965-75), 161 ft³/s (4.56 m³/s), 116,600 acre-ft/yr (144 hm³/s).

EXTREMES.--Current year: Maximum discharge observed, 1,870 ft³/s (53.0 m³/s) Jan. 31 (gage height, 3.88 ft or 1.183 m); minimum observed, 102 ft³/s (2.89 m³/s) Oct. 23, 30 (gage height, 0.84 ft or 0.256 m).
Period of record: Maximum discharge, 9,000 ft³/s (255 m³/s) Nov. 1, 1973 (gage height, 9.14 ft or 2.786 m, from floodmark) includes about 7,200 ft³/s (204 m³/s) from Spring Creek, by indirect measurement of peak flow over dam; minimum, about 55 ft³/s (1.6 m³/s) Nov. 13, 1934.

REMARKS.--Records poor. Occasional runoff from drainage area of 42.4 mi² (109.8 km²) included in records.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	107	136	250	972	562	500	300	180	162	140	160
2	116	107	132	345	715	535	430	300	180	162	138	150
3	116	150	126	330	535	455	385	285	178	152	138	146
4	116	408	126	300	480	408	350	270	178	152	134	142
5	116	373	138	270	430	365	330	255	174	152	134	138
6	116	300	144	255	385	315	315	242	174	152	134	138
7	116	270	160	242	345	300	315	242	176	150	132	136
8	115	250	220	230	330	300	315	230	174	148	132	134
9	113	230	178	218	300	270	300	218	170	144	130	130
10	111	242	170	408	285	270	300	205	174	144	128	146
11	109	280	160	430	270	270	285	205	172	144	128	205
12	109	330	180	315	255	785	285	285	170	144	130	218
13	109	300	330	300	242	1000	270	192	170	140	130	205
14	109	270	450	285	230	900	255	192	168	140	130	192
15	120	242	350	270	230	800	255	192	172	140	130	176
16	130	218	270	242	230	715	255	180	166	140	132	164
17	140	205	250	230	230	650	255	180	270	136	132	158
18	130	192	220	230	218	600	255	180	230	140	130	152
19	120	180	210	218	218	550	255	180	180	140	128	160
20	106	170	200	205	218	500	242	180	180	140	126	166
21	104	166	190	192	205	490	242	192	180	150	126	156
22	104	162	180	180	385	480	230	192	166	142	126	148
23	102	158	180	176	562	455	242	192	166	140	126	144
24	104	152	170	178	535	430	300	180	162	138	128	140
25	104	150	160	192	535	385	1000	192	162	136	128	140
26	106	146	160	180	535	345	700	180	162	134	130	136
27	106	138	160	178	480	320	600	180	162	134	126	133
28	106	140	150	172	480	562	500	180	168	132	146	130
29	106	138	140	176	---	650	400	180	168	130	174	172
30	102	136	140	192	---	602	350	180	164	130	188	160
31	107	---	180	1520	---	600	---	180	---	140	176	---
TOTAL	3488	6310	5960	8909	10835	15949	10716	6461	5296	4428	4210	4675
MEAN	113	210	192	287	387	514	357	208	177	143	136	156
MAX	140	408	450	1520	972	1000	1000	300	270	162	188	218
MIN	102	107	126	172	205	270	230	180	162	130	126	130
AC-FT	6920	12520	11820	17670	21490	31630	21260	12820	10500	8780	8350	9270

CAL YR 1974 TOTAL 78870 MEAN 216 MAX 2270 MIN 73 AC-FT 156400
WTR YR 1975 TOTAL 87237 MEAN 239 MAX 1520 MIN 102 AC-FT 173000

06925200 Starks Creek at Preston, Mo.

LOCATION.--Lat 37°56'27", long 93°11'48", in SW¼NW¼ sec.24, T.37 N., R.21 W., Hickory County, in right bank on downstream side of bridge on U.S. Highway 54, 0.6 mi (1.0 km) east of junction of U.S. Highways 65 and 54 at Preston.

DRAINAGE AREA.--4.18 mi² (10.8 km²).

PERIOD OF RECORD.--July 1956 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 980 ft (298.7 m) from topographic map.

AVERAGE DISCHARGE.--19 years, 3.78 ft³/s (0.107 m³/s), 12.28 in/yr (312 mm/yr), 2,740 acre-ft/yr (3.38 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 546 ft³/s (15.5 m³/s) Jan. 30 (gage height, 6.68 ft or 2.036 m); no flow on many days.
Period of record: Maximum discharge, 1,900 ft³/s (53.8 m³/s) June 23, 1965 (gage height, 10.57 ft or 3.222 m); no flow at times each year.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.39	.85	2.5	13	7.0	1.4	.20	.25	.22	0	0
2	.10	4.1	.82	2.0	8.6	5.0	1.2	.19	.17	.20	0	0
3	.08	270	.79	1.8	9.1	4.0	1.0	.30	.16	.17	0	0
4	.08	166	.78	1.8	4.6	3.0	1.0	.21	.12	.16	0	0
5	.07	11	1.3	1.6	5.0	2.0	.87	.16	.12	.13	0	0
6	.06	3.0	52	1.6	3.2	20	.80	.13	.12	.10	0	0
7	.06	2.3	18	1.6	2.7	10	.73	.12	.14	.06	0	0
8	.06	1.9	2.9	1.6	2.9	5.0	.76	.10	.11	.04	0	0
9	.06	1.7	2.1	1.6	2.2	3.0	.65	.09	.94	.02	0	0
10	.06	35	1.9	42	2.0	2.0	.54	.10	1.7	0	0	9.1
11	.06	8.1	76	2.8	1.6	1.6	.49	.10	.29	0	0	2.6
12	.07	2.9	9.2	1.9	1.4	1.4	.44	.09	.19	0	0	1.3
13	.10	2.4	3.1	1.8	1.2	1.2	.43	.08	.17	0	0	.22
14	7.6	2.0	2.5	1.7	1.0	1.0	.68	.08	.10	0	0	.12
15	.64	1.8	2.2	1.6	1.0	1.0	.53	.07	.09	.02	0	.11
16	.25	1.6	1.9	1.6	21	1.0	.52	.06	7.3	.02	0	.10
17	.16	1.5	1.7	1.5	12	.80	.44	.06	52	.02	0	.09
18	.11	1.5	1.6	1.6	4.6	.80	.46	.05	1.4	.01	0	.07
19	.10	1.4	1.6	1.7	4.1	.80	.37	.25	.69	.01	0	.31
20	.09	1.1	1.5	1.4	3.5	.60	.32	.71	.49	.01	0	.16
21	.08	1.1	1.4	1.4	3.3	.60	.20	.48	.39	0	0	.10
22	.08	1.0	1.3	1.3	149	.60	.23	.10	.35	0	0	.09
23	.08	1.0	1.2	1.3	20	.60	.46	.08	.36	0	0	.07
24	.08	.90	1.2	2.2	12	.60	5.4	.06	.37	0	0	.06
25	.08	.82	1.2	2.6	4.8	.60	1.0	.18	.39	0	0	.04
26	.08	.82	1.1	1.7	6.6	.60	.52	.11	.47	0	1.9	.03
27	.08	.78	1.1	1.6	20	90	.38	.10	.44	0	.09	.02
28	.09	.76	1.1	1.6	10	10	.51	.10	.41	0	.01	.23
29	.10	.66	1.0	2.0	---	5.0	.33	.67	.28	0	.02	7.0
30	.08	.64	1.0	157	---	3.0	.20	1.6	.23	.02	.07	13
31	.57	---	10	126	---	2.0	---	.59	---	0	.01	---
TOTAL	11.36	528.56	204.34	374.4	327.2	184.80	23.00	7.81	70.19	1.21	2.10	34.82
MEAN	.37	17.6	6.59	12.1	11.7	5.96	.77	.25	2.34	.039	.068	1.16
MAX	7.6	270	76	157	149	90	5.4	1.6	52	.22	1.9	13
MIN	.06	.39	.78	1.3	1.0	.60	.23	.05	.09	0	0	0
CFSM	.09	4.21	1.58	2.89	2.80	1.43	.18	.06	.56	.009	.02	.28
IN.	.10	4.70	1.82	3.33	2.91	1.64	.20	.07	.62	.01	.02	.31
AC-FT	23	1050	405	743	649	367	46	15	139	2.4	4.2	69

CAL YR 1974 TOTAL 2510.76 MEAN 6.88 MAX 280 MIN 0 CFSM 1.65 IN 22.34 AC-FT 4980
WTR YR 1975 TOTAL 1769.79 MEAN 4.85 MAX 270 MIN 0 CFSM 1.16 IN 15.75 AC-FT 3510

PEAK DISCHARGE (BASE, 200 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-3	1400	6.50	510	3-27	*	6.25	459
1-30	2400	6.68	546	6-17	0500	5.04	236
2-22	1345	5.88	387				

* Unknown

06925500 Lake of the Ozarks near Bagnell, Mo.

LOCATION--Lat 38°12'19", long 92°37'21", in SE¼ sec.19, T.40 N., R.15 W., Miller County, at left end of powerhouse section near left end of Bagnell Dam on Osage River, 2 mi (3.2 km) southwest of Bagnell, and at mile 81.7 (131.5 km).

DRAINAGE AREA.--14,000 mi^2 (36,000 km^2), approximately.

PERIOD OF RECORD.--April 1931 to current year. Gage-height records collected at same site since 1932 are contained in reports of the National Weather Service, published as Osage River at Bagnell Dam, Lakeside.

GAGE.--Water-stage recorder. Datum of gage is mean sea level, adjustment of 1912. To obtain datum of 1929 mean sea level, subtract 0.88 ft (0.286 m).

EXTREMES.--Current year: Maximum contents, 1,247,000 acre-ft (1.54 km^3) Feb. 4 (elevation, 660.54 ft or 201.333 m); minimum, 888,000 acre-ft (1.09 km^3) Mar. 11 (elevation, 653.85 ft or 199.293 m).

Period of record: Maximum contents, 1,527,000 acre-ft (1.88 km^3) May 22, 1943 (elevation, 665.45 ft or 202.829 m); minimum, 322,100 acre-ft (397 hm^3) Feb. 13, 1948 (elevation, 639.95 ft or 195.057 m).

REMARKS.--Lake is formed by concrete gravity dam. Spillway is equipped with 12 taintor gates 34 ft (10 m) wide by 22 ft (6.7 m) high. Storage began in 1931. Usuable capacity 1,218,000 acre-ft (1.50 km^3) between elevations 630.00 ft or 192.024 m (maximum draw-down) and 660.00 ft or 201.168 m (top of gates). Dead storage, 708,800 acre-ft (874 hm^3). Figures given herein are usable contents. Water is used for generating electricity. Elevations given herein are referred to mean sea level, adjustment of 1912.

COOPERATION.--Records furnished by Union Electric Company of Missouri.

MONTH-END ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30	658.25	1,119,000	----
Oct. 31	657.40	1,071,000	-48,000
Nov. 30	657.70	1,088,000	+17,000
Dec. 31	657.91	1,100,000	+12,000
CAL YR 1974	---	----	-106,000
Jan. 31	658.66	1,141,000	+41,000
Feb. 28	657.10	1,055,000	-86,000
Mar. 31	656.10	1,002,000	-53,000
Apr. 30	655.58	975,600	-26,400
May 31	655.84	989,100	+13,500
June 30	658.51	1,133,000	+143,900
July 31	658.02	1,105,000	-28,000
Aug. 31	658.55	1,135,000	+30,000
Sept. 30	657.52	1,078,000	-57,000
WATER YR 1975	---	---	-41,000

06926000 Osage River near Bagnell, Mo.

LOCATION.--Lat 38°12'27", long 92°36'20", in N½SE¼ sec.21, T.40 N., R.15 W., Miller County, on left bank 1.5 mi (2.4 km) upstream from Bagnell, 3 mi (4.8 km) downstream from hydroelectric plant of Union Electric Company of Missouri, and at mile 78.5 (126.3 km).

DRAINAGE AREA.--14,000 mi^2 (36,300 km^2), approximately.

PERIOD OF RECORD.--October 1880 to current year. Monthly discharge only for some periods published in WSP 1310. Gage-height records collected in this vicinity 1880-1931 are contained in reports of Missouri River Commission or National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 548.87 ft (167.296 m) above mean sea level. Prior to Oct. 15, 1930, nonrecording gage at present site and datum. Since Oct. 1, 1940, auxiliary water-stage recorder at power plant 3 mi (4.8 km) upstream from base gage.

AVERAGE DISCHARGE.--95 years, 9,712 ft^3/s (275 m^3/s), 7,036,000 acre-ft/yr (8,675 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 67,800 ft^3/s (1,920 m^3/s) Nov. 6 (gage height, 24.93 ft or 7.599 m); minimum daily, 356 ft^3/s (10.1 m^3/s) Aug. 3.

Period of record: Maximum discharge, 220,000 ft^3/s (6,230 m^3/s) May 19, 1943 (gage height, 48.8 ft or 14.87 m); minimum, 183 ft^3/s (5.18 m^3/s) Sept. 9, 1969; minimum daily discharge, 220 ft^3/s (6.23 m^3/s) Dec. 12, 1917.

Maximum stage known prior to 1943, 43.1 ft (13.14 m) in June 1844 (discharge, 164,000 ft^3/s or 4,640 m^3/s).

REMARKS.--Records fair above 2,000 ft^3/s (56.6 m^3/s) and poor below. Flow regulated by Lake of the Ozarks.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9050	8950	1090	1960	35200	34400	32400	16400	408	9660	423	11000
2	11000	5710	10100	13300	39000	42500	32300	12400	5020	12200	451	14600
3	11000	17400	11700	18200	42200	41500	32300	9060	9130	9390	356	10600
4	5770	43500	8890	15100	44100	36100	32200	3110	15800	1090	481	10300
5	3160	63300	5760	15300	46400	32500	32200	13160	14500	400	740	7950
6	707	67300	8570	12900	47400	32400	26000	9500	11000	390	875	1920
7	1390	65400	17200	13700	47300	32000	16000	15100	1150	12900	390	415
8	494	64000	14800	16300	44400	32400	13200	19800	471	9950	434	1500
9	1040	61000	21400	14000	35200	24100	12200	16700	5480	5550	356	840
10	799	60100	20000	19400	34700	25700	8970	5340	3880	3020	580	471
11	3140	59400	14200	21600	34600	19100	14800	1510	5510	620	2690	17600
12	430	56200	19000	11300	33500	20100	10900	4300	2850	376	5830	17600
13	367	55400	32000	17600	16900	32300	870	6750	7170	395	1320	10900
14	373	50500	32000	13700	14400	26100	10300	3250	4990	413	620	1900
15	367	41000	16300	15700	22500	23700	11300	2900	861	1540	2250	13300
16	7150	35000	17400	15100	18200	23300	8700	3050	409	481	1210	10000
17	8930	33400	15500	15000	27200	23900	10300	1370	17400	1130	580	6210
18	6030	33200	13000	8920	27900	28000	13100	387	33200	1140	376	14300
19	2750	23200	14500	4170	31300	28200	8990	7110	33400	373	1060	15400
20	706	18000	10500	15300	30600	32100	7750	4630	32000	465	3220	2770
21	1050	15700	8110	13200	29000	32200	12500	4600	19500	2190	2000	516
22	4150	10500	1500	12000	29000	32100	12100	13200	5050	4140	4770	4820
23	2580	7350	13100	14300	35200	23900	13500	6700	10500	2080	3140	5140
24	816	5470	6220	14100	36700	22700	22900	625	13100	1190	692	3240
25	2410	13600	857	8510	40300	19500	29300	404	12000	469	376	6200
26	636	13600	11700	1190	34300	18000	22600	370	18500	481	12600	1300
27	370	11300	8870	12200	32700	18600	10100	395	18900	2300	33600	4340
28	370	2150	6130	11300	32700	21400	19000	445	10000	2600	20400	1210
29	2240	10000	685	10900	---	32300	19800	412	12900	3310	20200	5710
30	11300	9600	13100	13400	---	32400	16900	4660	9430	652	8470	3620
31	11100	---	15700	29400	---	32300	---	1340	---	390	1270	---
TOTAL	112395	970110	393282	420650	943100	869200	514300	189990	345900	92277	140560	205752
MEAN	3626	32340	12690	13570	33680	28040	17150	6129	11530	2977	4534	6858
MAX	11300	67300	32000	29400	47400	42500	32400	19800	33400	12900	33600	17600
MIN	367	2150	685	1190	14400	19500	870	370	408	373	356	415
AC-FT	222900	1924000	780100	834400	1871000	1724000	1020000	376900	686100	183000	278800	408100

CAL YR 1974 TOTAL 5523515 MEAN 15130 MAX 90400 MIN 356 AC-FT 10960000
WTR YR 1975 TOTAL 5197553 MEAN 14240 MAX 67300 MIN 356 AC-FT 10310000

OSAGE RIVER BASIN

06926500 Osage River near St. Thomas, Mo.

LOCATION.--Lat 38°20'20", long 92°13'34", in SE¼SW¼ sec.35, T.42 N., R.12 W., Cole County, on left bank 0.5 mi (0.8 km) downstream from Sugar Creek, 2.5 mi (4.0 km) south of St. Thomas, and at mile 43.1 (69.3 km).

DRAINAGE AREA.--14,500 mi³ (37,600 km²), approximately.

PERIOD OF RECORD.--August 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 528.06 ft (160.953 m) above mean sea level.

AVERAGE DISCHARGE.--44 years, 10,230 ft³/s (289.7 m³/s), 7,410,000 acre-ft/yr (9,140 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 71,300 ft³/s (2,020 m³/s) Nov. 7 (gage height, 23.24 ft or 7.084 m); minimum, 383 ft³/s (10.8 m³/s) Aug. 4; minimum gage height, 1.38 ft (0.421 m) Aug. 10.
Period of record: Maximum discharge, 216,000 ft³/s (6,120 m³/s) May 20, 1943 (gage height, 43.8 ft or 13.35 m); minimum, 346 ft³/s (9.80 m³/s) July 12, 1959, Sept. 18, 1960; minimum gage height, 1.28 ft (0.390 m) Sept. 18, 1960; minimum daily discharge, 373 ft³/s (10.6 m³/s) July 12, 1959.
Maximum stage known prior to 1943, about 39.4 ft (12.0 m) in June 1844.

REMARKS.--Records fair. Flow regulated by Lake of the Ozarks.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8660	9110	8340	14400	42600	36300	34900	17600	1320	8890	520	2450
2	9080	7450	3920	5840	41100	41600	34900	14800	2290	9580	477	11500
3	11000	11400	11900	15300	45100	45300	34700	11600	8580	9670	528	12100
4	7180	44800	11200	18600	46000	38600	34400	9360	10100	7360	464	9240
5	5720	64300	8170	15400	48500	34500	34300	6240	16100	1360	481	9080
6	3430	69900	6070	16800	50000	33800	32600	16300	13300	690	1280	6770
7	1180	70900	15300	12900	50000	35200	18600	23200	1430	2350	931	1600
8	1770	69100	15400	14900	49400	34500	15300	22100	1470	11200	509	719
9	914	67600	19300	17100	40700	28000	12800	19300	1820	7120	479	2460
10	2530	66200	19200	20200	37000	28300	11600	14700	5450	5250	439	1100
11	1300	67300	15200	30800	36400	21800	12000	5040	5580	3150	605	7740
12	3110	63100	17600	14500	36100	23600	14400	2280	4950	971	3300	26200
13	862	60000	33000	16800	31000	35000	8720	6610	4910	522	5470	7840
14	662	57900	35200	15400	7500	31000	4750	6400	6000	480	1450	9370
15	708	49700	23200	16400	22400	26400	9510	4770	5300	468	869	3810
16	1000	40600	16100	15700	19000	23600	10100	3660	1230	1190	2930	12600
17	7600	37400	18000	17300	27600	25000	9080	4990	4770	691	1390	7070
18	7740	36600	14000	11600	27400	28800	12700	1760	29900	930	873	6360
19	4890	28100	14500	9840	32400	29600	11000	1680	33300	1050	533	16100
20	3130	21300	14000	8780	32700	33100	10800	7850	32700	520	1540	12300
21	1080	17800	9500	16600	30600	33000	8560	4540	22300	445	3510	2920
22	2400	18300	8450	13100	32600	33000	12500	7330	15100	2750	2600	1930
23	4310	14700	4070	14600	45400	28000	13300	13900	4930	4000	5010	3770
24	3120	7870	12200	14600	40500	24800	37900	4810	11200	2830	3150	5020
25	1150	9240	6440	13800	42700	17200	44900	1590	11300	1310	1130	4430
26	2730	16300	4180	7410	40000	14500	28100	839	14100	632	5010	5260
27	1030	10900	9920	4650	36000	19900	19600	701	18300	495	26400	1940
28	645	11300	9190	13400	35600	22200	14500	693	17500	3450	28700	4290
29	605	4430	6590	10800	---	35100	22000	902	15900	2840	24600	2800
30	3950	11200	3550	14600	---	35700	19600	938	9790	3260	15200	4320
31	10500	---	16200	39900	---	35200	---	5480	---	909	6640	---
TOTAL	113986	1065400	409890	472020	1026500	935000	588120	241363	331000	96643	149008	203089
MEAN	3677	35510	13220	15230	36660	30160	19600	7786	11030	3118	4807	6770
MAX	11000	70900	35200	39900	50000	45300	44900	23200	33300	11200	28700	26200
MIN	605	4430	3550	4650	7500	14500	4750	693	1230	445	439	719
AC-FT	226100	2113000	813000	936300	2036000	1855000	1167000	478700	656500	191700	295600	402800

CAL YR 1974 TOTAL 5884755 MEAN 16120 MAX 90300 MIN 517 AC-FT 11670000
WTR YR 1975 TOTAL 5632099 MEAN 15430 MAX 70900 MIN 439 AC-FT 11170000

06927800 .Osage Fork at Drynob, Mo.

LOCATION.--Lat 37°38'00", long 92°27'12", in NW¼NE¼ sec.27, T.34 N., R.14 W., Laclede County, on downstream end of right bridge pier on State Highway 32, 0.1 mi (0.2 km) downstream from Walker Hollow, 0.6 mi (1.0 km) southwest of Drynob, 1.6 mi (2.6 km) upstream from Core Creek, and 12 mi (19.3 km) southeast of Lebanon.

DRAINAGE AREA.--404 mi² (1,046 km²).

PERIOD OF RECORD.--August 1962 to current year. Occasional low-flow measurements 1942, 1944-47, 1952, 1953, 1956.

GAGE.--Water-stage recorder. Datum of gage is 927.85 ft (282.809 m) above mean sea level.

AVERAGE DISCHARGE.--13 years, 304 ft³/s (8.61 m³/s), 10.2 in/yr (259 mm/yr), 220,200 acre-ft/yr (272 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 12,200 ft³/s (346 m³/s) Feb. 23 (gage height, 14.95 ft or 4.557 m); minimum, 23 ft³/s (0.651 m³/s) Aug. 12, 13; minimum gage height, 2.70 ft (0.823 m) Aug. 23, 24, 25, 26.

Period of record: Maximum discharge, 17,400 ft³/s (493 m³/s) Nov. 25 (gage height, 16.65 ft or 5.075 m); minimum, 16 ft³/s (0.453 m³/s) Oct. 5-15, 1963, Oct. 21, 22, 1964.

A discharge of 12 ft³/s (0.340 m³/s) was measured on Sept. 21, 1956.

Maximum stage known about 31 ft (9.45 m) in 1903, flood in September 1914 reached a stage of 29.3 ft (8.93 m), flood in May 1943 reached a stage of 28.5 ft (8.69 m), from information by local resident.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 2119: 1963, 1965(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	82	195	1150	3270	1510	894	1050	117	125	30	251
2	83	94	191	815	1690	1310	763	561	111	115	30	162
3	73	139	187	741	1260	1060	658	445	107	107	30	123
4	67	2760	186	669	1040	894	579	384	106	98	28	97
5	61	2440	185	554	936	794	526	339	106	92	27	79
6	57	926	189	490	905	710	481	307	100	86	25	64
7	55	620	239	436	737	760	446	285	112	83	25	52
8	51	492	466	388	645	788	417	267	150	81	24	42
9	51	406	435	352	573	680	394	256	139	74	25	37
10	49	818	372	1700	518	668	360	241	121	70	25	472
11	48	2170	374	1990	493	731	339	229	119	67	24	1080
12	46	1100	755	996	472	4100	323	223	122	64	24	1330
13	47	733	869	709	433	2550	309	213	111	61	23	780
14	82	572	660	570	484	1560	305	204	101	59	28	417
15	122	458	557	491	388	1240	298	195	107	56	41	302
16	149	385	468	429	375	1350	289	188	105	54	46	247
17	164	339	419	379	423	1960	279	180	1260	51	36	281
18	145	308	389	345	456	1630	288	173	966	49	31	235
19	130	288	335	323	427	2080	290	167	420	48	30	462
20	115	271	312	304	405	1410	275	165	297	49	30	882
21	102	253	294	290	386	1130	254	182	234	49	29	516
22	92	243	275	273	2580	945	243	172	194	50	28	367
23	85	235	266	260	9110	824	243	164	187	47	25	292
24	79	226	254	255	2590	741	292	155	188	44	26	243
25	74	215	240	266	1680	629	563	160	157	49	25	205
26	70	207	229	276	1420	595	675	148	144	41	31	181
27	67	202	222	268	1450	803	485	143	140	39	113	164
28	67	197	214	263	1310	2540	415	138	173	37	221	151
29	67	194	214	267	---	2250	392	132	197	36	218	162
30	65	198	213	440	---	1460	467	127	142	35	360	162
31	74	---	391	4630	---	1100	---	124	---	33	533	---
TOTAL	2529	17571	10595	21319	36496	40762	12542	7717	6533	1949	2191	9838
MEAN	81.6	586	342	688	1303	1315	418	249	218	62.9	70.7	328
MAX	164	2760	869	4630	9110	4100	894	1050	1260	125	533	1330
MIN	46	82	185	255	375	595	243	124	100	33	23	37
CFSM	.20	1.45	.85	1.70	3.23	3.25	1.03	.62	.54	.16	.18	.81
IN.	.23	1.62	.98	1.96	3.36	3.75	1.15	.71	.60	.18	.20	.91
AC-FT	5020	34850	21020	42290	72390	80850	24880	15310	12960	3870	4350	19510

CAL YR 1974 TOTAL 158780 MEAN 435 MAX 7510 MIN 30 CFSM 1.08 IN 14.62 AC-FT 314900
WTR YR 1975 TOTAL 170042 MEAN 466 MAX 9110 MIN 23 CFSM 1.15 IN 15.66 AC-FT 337300

PEAK DISCHARGE (BASE, 5,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-31	2100	12.11	6,230	3-12	1330	12.08	6,190
2-23	1315	14.95	12,200				

06928700 Beeler Branch near Cabool, Mo.

LOCATION.--Lat 37°06'06", long 92°04'17", in SE¼NE¼SE¼ sec.18, T.28 N., R.10 W., Texas County, at bridge on U.S. Highway 60 and 63, 2 mi (3.2 km) upstream from mouth, and 2.1 mi (3.4 km) southeast of Cabool.

DRAINAGE AREA.--7.78 mi² (20.2 km²).

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,258.46 ft (383.579 m) above mean sea level. Prior to July 8, 1974 datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--8 years, 7.58 ft³/s (0.215 m³/s), 13.23 in/yr (336 mm/yr), 5,490 acre-ft/yr (6.77 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,660 ft³/s (75.3 m³/s) Jan. 10 (gage height, 8.62 ft or 2.627 m); minimum, 0.24 ft³/s (0.007 m³/s) Aug. 21, 22, 23, 24, 25, 26 (gage height, 1.86 ft or 0.567 m).

Period of record: Maximum discharge, 4,700 ft³/s (133 m³/s) Oct. 26, 1970, Apr. 15, 1972 estimate of peak flow by slope-area measurement; maximum gage height, 8.90 ft (2.713 m) datum then in use, Apr. 15, 1972; no flow at times in October, November 1971, August 1972.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.93	.70	1.3	7.1	9.0	13	12	5.3	1.3	.70	.30	.89
2	.93	.60	1.1	7.1	12	10	10	4.7	1.3	.68	.30	.76
3	.92	10	1.0	6.6	12	8.7	8.1	4.3	1.2	.64	.32	.72
4	.86	109	.93	5.6	10	7.3	7.0	3.9	1.1	.64	.29	.67
5	.85	15	.93	4.6	9.4	6.6	6.0	3.3	40	.61	.29	.64
6	.78	9.1	1.5	4.0	8.0	6.0	5.4	3.0	5.8	.74	.28	.57
7	.72	7.1	2.9	3.2	6.7	11	5.0	2.8	5.2	.68	.28	.54
8	.72	5.5	4.0	7.4	6.0	8.4	4.6	2.5	4.2	.64	.28	.47
9	.64	4.5	4.0	15	5.2	7.8	4.2	2.3	3.4	.59	.28	.43
10	.58	91	3.8	500	4.8	7.5	3.9	2.2	2.9	.57	.28	3.0
11	.58	33	3.9	30	4.2	16	3.5	2.0	2.6	.57	.26	27
12	.58	16	3.7	14	3.8	53	3.3	1.9	2.3	.57	.25	25
13	.58	11	3.5	9.3	3.6	36	3.2	1.7	2.2	.55	.25	8.8
14	1.0	8.2	3.4	7.0	3.4	24	3.2	1.6	2.0	.53	.25	6.1
15	1.1	6.3	3.2	6.0	3.2	19	3.0	1.5	2.8	.51	.25	4.3
16	1.2	5.5	3.0	4.9	3.0	28	2.8	1.6	2.0	.51	.25	3.6
17	1.1	4.9	2.8	4.2	2.9	38	2.7	1.5	1.9	.50	.25	102
18	1.0	4.4	2.6	4.0	2.7	107	3.1	1.5	1.6	.47	.26	18
19	.90	3.9	2.4	3.6	2.6	59	3.1	1.5	1.3	.44	.25	146
20	.80	3.5	2.3	3.4	2.5	27	2.7	1.6	1.2	.43	.25	30
21	.70	3.3	2.1	3.0	2.3	19	2.5	1.7	1.1	.43	.25	14
22	.60	3.0	2.0	2.6	156	14	2.4	1.5	.98	.40	.25	9.1
23	.60	2.8	1.8	2.6	70	12	2.8	1.4	1.1	.36	.24	7.0
24	.50	2.5	1.6	2.7	33	9.2	6.6	1.8	.90	.36	.24	5.0
25	.50	2.3	1.1	3.0	25	7.4	44	1.4	.88	.35	.27	4.1
26	.50	2.1	1.1	2.8	24	6.5	16	1.3	.82	.33	2.3	3.6
27	.70	1.9	1.0	2.9	21	26	10	1.3	.79	.30	1.6	3.2
28	.80	1.7	1.0	3.0	17	81	9.4	1.3	.76	.33	.82	2.9
29	1.0	1.5	1.4	2.8	---	42	7.9	1.3	.72	.30	2.0	2.9
30	1.1	1.4	1.3	3.0	---	23	6.8	1.3	.72	.30	2.5	2.6
31	.80	---	4.0	5.1	---	16	---	1.3	---	.30	1.1	---
TOTAL	24.57	371.70	70.66	680.5	463.3	749.4	205.2	66.3	95.07	15.33	16.99	433.89
MEAN	.79	12.4	2.28	22.0	16.5	24.2	6.84	2.14	3.17	.49	.55	14.5
MAX	1.2	109	4.0	500	156	107	44	5.3	40	.74	2.5	146
MIN	.50	.60	.93	2.6	2.3	6.0	2.4	1.3	.72	.30	.24	.43
CFSM	.10	1.59	.29	2.83	2.12	3.11	.88	.28	.41	.06	.07	1.86
IN.	.12	1.78	.34	3.25	2.21	3.58	.98	.32	.45	.07	.08	2.07
AC-FT	49	737	140	1350	919	1490	407	132	189	30	34	861

CAL YR 1974 TOTAL 3492.97 MEAN 9.57 MAX 494 MIN .28 CFSM 1.23 IN 16.70 AC-FT 6930
WTR YR 1975 TOTAL 3192.91 MEAN 8.75 MAX 500 MIN .24 CFSM 1.12 IN 15.26 AC-FT 6330

PEAK DISCHARGE (BASE, 500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	0200	4.84	526	2-22	1815	5.02	604
1-10	0115	8.62	2,660	9-17	0800	4.93	558

06930000 Big Piney River near Big Piney, Mo.

LOCATION.--Lat 37°39'58", long 92°03'02", in NE¼SE¼ sec.8, T.34 N., R.10 W., Pulaski County, on downstream side of left pier of Ross bridge, 3 mi (4.8 km) east of Big Piney, 14.8 mi (23.8 km) upstream from Spring Creek, and at mile 22 (35.4 km).

DRAINAGE AREA.--560 mi^2 (1,450 km^2), approximately.

PERIOD OF RECORD.--October 1921 to current year.

GAGE.--Water-stage recorder. Datum of gage is 800.99 ft (244.142 m) above mean sea level. Prior to July 12, 1961, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--54 years, 547 ft^3/s (15.5 m^3/s), 13.26 in/yr (337 mm/yr), 396,200 acre-ft/yr (486 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 19,000 ft^3/s (538 m^3/s) Jan. 11 (gage height, 16.88 ft or 5.145 m); minimum, 146 ft^3/s (4.13 m^3/s) Aug. 10, 12; minimum gage height, 2.21 ft (0.674 m) Aug. 10, 12, 24, 25.
Period of record: Maximum discharge, 32,700 ft^3/s (926 m^3/s) Dec. 27, 1942 (gage height, 20.7 ft or 6.31 m, from floodmark); minimum, 69 ft^3/s (1.95 m^3/s) Sept. 17, 18, 1954; minimum gage height, 1.60 ft (0.488 m) July 30, 31, 1926, Sept. 5, 6, 9-11, 17, 18, 1954.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 826: 1935. WSP 1176: 1943, 1945. WSP 1340: 1922-23, 1927-28(M), 1933(M), 1935(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	453	285	357	918	2230	1440	1530	2720	313	225	162	232
2	397	285	348	1110	1710	1250	1290	1490	307	217	165	213
3	361	331	337	912	1480	1080	1130	1180	307	213	165	196
4	337	3580	328	843	1250	954	989	1000	300	210	165	185
5	321	7200	323	731	1090	868	893	871	297	206	162	179
6	307	2000	325	649	971	805	818	786	293	203	159	172
7	297	1320	341	590	846	783	760	724	314	217	159	168
8	287	1010	375	551	749	928	718	654	324	213	155	165
9	280	821	427	597	677	874	685	599	309	210	152	159
10	275	1010	421	3490	619	867	646	553	293	203	152	162
11	269	4720	423	13600	587	854	605	524	284	196	149	200
12	267	2570	436	2630	561	1970	571	505	275	196	149	500
13	264	1610	441	1640	526	2960	547	482	270	196	149	400
14	318	1230	435	1260	496	2210	534	459	263	192	165	350
15	378	975	428	1040	480	1740	521	442	326	185	159	300
16	396	824	400	886	466	1580	505	426	298	182	162	252
17	378	729	390	767	459	2270	493	411	291	179	165	200
18	352	656	380	681	443	2620	492	399	278	179	162	300
19	327	603	370	637	426	4050	514	388	264	179	165	500
20	308	561	359	588	411	2740	493	377	255	179	168	1000
21	295	518	352	536	403	1950	466	399	247	179	159	700
22	284	484	337	498	1120	1600	446	380	240	175	159	500
23	275	461	331	464	7740	1360	454	369	252	189	155	417
24	274	444	322	443	3860	1220	545	370	264	182	152	350
25	271	422	309	447	2180	1080	1920	401	285	179	152	300
26	268	401	300	446	1790	945	2230	376	260	175	182	250
27	272	386	296	423	1720	967	1330	355	248	168	165	220
28	271	375	289	410	1630	3230	1050	340	240	168	213	200
29	274	367	295	400	---	4140	934	333	248	168	218	200
30	280	366	301	432	---	2700	4120	326	236	165	252	210
31	287	---	368	1990	---	1920	---	319	---	162	252	---
TOTAL	9623	36544	11144	40609	36920	53955	28229	18957	8380	5890	5240	9180
MEAN	310	1218	359	1310	1319	1740	941	612	279	190	169	306
MAX	453	7200	441	13600	7740	4140	4120	2720	326	225	252	1000
MIN	264	285	289	400	403	783	446	319	236	162	149	159
CFSM	.55	2.18	.64	2.34	2.36	3.11	1.68	1.09	.50	.34	.30	.55
IN.	.64	2.43	.74	2.70	2.45	3.58	1.88	1.26	.56	.39	.35	.61
AC-FT	19090	72490	22100	80550	73230	107000	55990	37600	16620	11680	10390	18210

CAL YR 1974 TOTAL 332838 MEAN 912 MAX 9500 MIN 211 CFSM 1.63 IN 22.11 AC-FT 660200
WTR YR 1975 TOTAL 264671 MEAN 725 MAX 13600 MIN 149 CFSM 1.29 IN 17.58 AC-FT 525000

PEAK DISCHARGE (BASE, 6,800 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-5	0515	13.83	11,800	2-23	1815	13.19	10,500
1-11	0945	16.88	19,000	4-30	2000	11.16	7,370

GASCONADE RIVER BASIN

06931500 Little Beaver Creek near Rolla, Mo.

LOCATION.--Lat 37°56'06", long 91°50'11", in NW¼NW¼ sec.17, T.37 N., R.8 W., Phelps County, on right bank 1,700 ft (520 m) downstream from Interstate Highway 44, 2.9 mi (4.7 km) upstream from mouth, and 3 mi (4.8 km) west of Rolla.

DRAINAGE AREA.--6.41 mi² (16.6 km²).

PERIOD OF RECORD.--November 1947 to September 1975 (discontinued).

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 790 ft (240.8 m) from topographic map.

AVERAGE DISCHARGE.--27 years, 5.43 ft³/s (0.154 m³/s), 11.50 in/yr (292 mm/yr), 3,930 acre-ft/yr (4.85 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 2,480 ft³/s (70.2 m³/s) Mar. 11 (gage height, 6.20 ft or 1.890 m); minimum, 0.21 ft³/s (0.006 m³/s) Aug. 12, 13 (gage height, 1.57 ft or 0.479 m).

Period of record: Maximum discharge, 7,420 ft³/s (210 m³/s) July 17, 1958 (gage height, 8.57 ft or 2.612 m) from rating curve extended above 1,400 ft³/s (40 m³/s) on basis of slope-area and contracted opening measurements at gage height, 7.57 ft (2.307 m) and logarithmic plotting; no flow Aug. 12, 13, 1964, Aug. 4, 5, 1965, result of construction work on highway upstream.

Maximum stage known since 1881 or 1882, that of July 17, 1958.

REMARKS.--Records fair. Sewage effluent included in the records since July 1970.

REVISIONS (WATER YEARS).--WSP 1280: Drainage area. WSP 1730: 1957.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	.60	1.9	11	32	13	6.9	9.2	.80	.60	.80	3.7
2	.60	.70	1.7	9.8	22	9.2	6.0	7.4	.80	.60	.70	2.8
3	.60	4.2	1.7	10	14	7.4	5.0	6.9	.60	.50	.60	2.2
4	.60	36	1.5	6.9	11	6.4	4.6	6.4	.60	.50	.60	1.9
5	.60	6.9	1.7	5.6	16	6.0	4.0	5.6	.50	.50	.60	1.9
6	.50	3.7	2.2	5.0	10	5.6	3.7	14	.50	.50	.50	1.4
7	.50	2.5	5.0	4.3	7.4	5.6	3.4	14	.40	.50	.50	1.2
8	.50	1.7	4.0	4.0	7.8	4.6	3.4	6.0	.40	.40	.40	1.0
9	.50	1.9	3.1	5.6	5.0	5.0	3.1	4.6	.60	.40	.40	.80
10	.50	50	2.5	234	5.0	5.6	3.1	4.0	.50	.40	.40	2.0
11	.50	16	6.4	21	5.6	210	2.5	4.0	.50	.50	.30	21
12	.60	6.9	6.4	10	5.3	129	2.5	3.4	.40	.50	.30	5.3
13	.60	5.6	4.6	7.8	4.6	32	2.2	3.1	.40	.40	.50	3.1
14	3.1	4.0	4.0	6.4	4.6	22	2.5	3.1	1.1	.40	.60	1.9
15	1.7	3.4	3.7	5.6	4.6	19	2.2	2.5	1.9	.50	.70	1.7
16	1.2	3.1	3.1	4.3	5.3	18	1.9	1.9	1.6	.50	.60	1.7
17	1.0	2.5	2.5	4.0	11	15	1.9	1.9	3.1	.50	.60	12
18	1.0	2.4	2.5	4.0	7.8	15	2.2	1.7	1.0	.50	.60	4.6
19	.80	2.2	2.2	4.0	6.4	13	1.9	1.5	.80	.60	.60	50
20	.70	2.2	1.7	3.4	5.6	9.2	1.7	1.7	.60	.60	.50	9.2
21	.60	2.2	1.5	3.4	5.0	7.4	1.5	1.9	.60	.60	.50	5.0
22	.60	2.2	1.7	2.8	179	6.4	1.5	1.2	4.6	.50	.50	3.7
23	.60	2.2	1.9	2.5	42	6.0	8.2	1.0	1.7	1.8	.50	3.1
24	.70	1.7	1.7	3.1	25	5.3	133	1.2	1.1	1.0	.40	2.5
25	.70	1.5	1.5	4.3	23	4.6	21	1.5	.80	.80	5.1	1.9
26	.60	1.5	1.4	3.7	25	4.0	10	1.0	.70	.70	134	1.7
27	.60	1.5	1.7	3.4	21	45	7.8	.80	.80	.60	3.4	1.5
28	.60	1.5	1.5	3.7	18	54	6.4	1.2	.60	.60	12	1.5
29	.60	1.7	2.5	4.3	---	26	8.3	1.0	.60	.60	15	1.7
30	.60	1.7	2.2	84	---	14	13	.80	.60	.60	12	17
31	.60	---	36	105	---	9.8	---	.80	---	.50	5.3	---
TOTAL	23.60	174.20	116.0	586.9	529.0	733.1	275.4	115.30	29.20	18.20	199.50	169.00
MEAN	.76	5.81	3.74	18.9	18.9	23.6	9.18	3.72	.97	.59	6.44	5.63
MAX	3.1	50	36	234	179	210	133	14	4.6	1.8	134	50
MIN	.50	.60	1.4	2.5	4.6	4.0	1.5	.80	.40	.40	.30	.80
CFSM	.12	.91	.58	2.95	2.95	3.68	1.43	.58	.15	.09	1.00	.88
IN.	.14	1.01	.67	3.41	3.07	4.25	1.60	.67	.17	.11	1.16	.98
AC-FT	47	346	230	1160	1050	1450	546	229	58	36	396	335

CAL YR 1974 TOTAL 2295.50 MEAN 6.26 MAX 96 MIN .30 CFSM .98 IN 13.26 AC-FT 4530
WTR YR 1975 TOTAL 2949.40 MEAN 8.14 MAX 234 MIN .30 CFSM 1.27 IN 17.23 AC-FT 5890

PEAK DISCHARGE (BASE, 1,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-10	0645	5.48	1,580	8-26	0115	6.01	2,210
3-11	2230	6.20	2,480				

06932000 Little Piney Creek at Newburg, Mo.

LOCATION.--Lat 37°54'35", long 91°54'12", in SE¼ sec.22, T.37 N., R.9 W., Phelps County, on left bank at downstream side of bridge on State Highway P and T at Newburg, and 2 mi (3.2 km) upstream from Mill Creek.

DRAINAGE AREA.--200 mi² (520 km²), approximately.

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 693.40 ft (211.348 m) above mean sea level. Prior to Oct. 1, 1951, all gages at datum 3.0 ft (0.914 m) higher. Prior to Nov. 21, 1963, nonrecording gage at site 100 ft (30 m) downstream. Nov. 21, 1963, to May 9, 1966, nonrecording gage at present site.

AVERAGE DISCHARGE.--47 years, 152 ft³/s (4.30 m³/s), 10.33 in/yr (262 mm/yr), 110,100 acre-ft/yr (136 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 4,920 ft³/s (139 m³/s) Jan. 10 (gage height, 8.66 ft or 2.640 m); minimum, 46 ft³/s (1.30 m³/s) Aug. 24, 25 (gage height, 1.65 ft or 0.503 m).

Period of record: Maximum discharge, 32,500 ft³/s (920 m³/s) Aug. 14, 1946 (gage height, 16.2 ft or 4.94 m, present datum, from floodmarks), from rating curve extended above 21,000 ft³/s (595 m³/s) on basis of slope-area measurements at gage heights 15.0 ft (4.57 m) and 16.2 ft (4.94 m); maximum gage height, 16.26 ft (4.956 m) June 26, 1935 (from floodmark, present datum); minimum discharge, 24 ft³/s (0.68 m³/s) Aug. 22-31, 1936, Sept. 19, 20, 1954, Oct. 10-16, 1956.

Maximum stage known, 16.7 ft (5.09 m) Aug. 20, 1915 (from floodmark, present datum); discharge, 30,000 ft³/s (850 m³/s), from rating curve based on discharge measurements made in 1935 and extended above 25,000 ft³/s (708 m³/s).

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	84	106	294	904	500	380	370	98	73	62	134
2	116	84	101	239	713	472	322	314	98	70	63	100
3	110	97	97	242	555	385	266	287	95	68	62	84
4	102	754	96	208	456	372	232	257	93	70	59	77
5	105	449	96	186	437	297	210	235	92	68	57	82
6	101	295	100	173	361	264	194	229	90	74	57	72
7	98	231	120	158	296	228	184	428	89	73	57	69
8	95	194	125	157	269	210	174	304	87	68	57	65
9	91	172	116	153	234	184	173	255	89	67	59	61
10	86	618	113	2580	214	180	161	223	88	70	58	69
11	86	838	122	960	209	180	154	206	87	75	54	144
12	86	450	145	557	193	1150	144	193	85	75	56	115
13	84	337	130	405	173	786	138	174	83	74	60	81
14	113	271	131	326	167	619	140	164	82	72	66	69
15	126	224	130	272	162	579	136	159	123	71	68	66
16	110	195	122	237	156	490	130	148	102	72	80	62
17	104	175	115	206	182	448	133	140	121	70	83	110
18	98	163	110	195	171	407	150	134	100	68	80	82
19	96	154	118	186	159	393	188	130	91	68	79	454
20	90	146	108	168	148	312	153	129	90	72	72	250
21	90	137	103	160	140	276	140	145	94	66	70	163
22	88	130	100	148	2550	260	130	120	96	67	76	123
23	87	127	103	138	1620	240	226	112	107	76	85	100
24	88	121	100	141	838	230	1260	111	93	114	71	87
25	86	113	96	152	700	206	924	120	86	98	48	78
26	86	110	90	145	605	178	643	111	82	94	587	72
27	86	107	91	136	560	399	488	104	80	88	116	69
28	84	104	90	138	520	922	394	106	83	71	168	67
29	91	104	96	147	---	902	324	107	81	62	210	70
30	87	105	92	558	---	613	445	101	74	64	384	119
31	86	---	248	2080	---	484	---	99	---	63	193	---
TOTAL	2986	7089	3510	11845	13692	13166	8736	5715	2759	2281	3297	3194
MEAN	96.3	236	113	382	489	425	291	184	92.0	73.6	106	106
MAX	130	838	248	2580	2550	1150	1260	428	123	114	587	454
MIN	84	84	90	136	140	178	130	99	74	62	48	61
CFSM	.48	1.18	.57	1.91	2.45	2.13	1.46	.92	.46	.37	.53	.53
IN.	.56	1.32	.65	2.20	2.55	2.45	1.62	1.06	.51	.42	.61	.59
AC-FT	5920	14060	6960	23490	27160	26110	17330	11340	5470	4520	6540	6340

CAL YR 1974 TOTAL 74461 MEAN 204 MAX 1970 MIN 54 CFSM 1.02 IN 13.85 AC-FT 147700
WTR YR 1975 TOTAL 78270 MEAN 214 MAX 2580 MIN 48 CFSM 1.07 IN 14.56 AC-FT 155200

PEAK DISCHARGE (BASE, 4,900 FT³/S)

DATE	TIME	G. H.	DISCHARGE
1-10	1000	4,920	8.66

06933500 Gasconade River at Jerome, Mo.

LOCATION.--Lat 37°55'35", long 91°58'40", in SE¼ sec.13, T.37 N., R.10 W., Phelps County, on left bank at Jerome, 0.5 mi (0.8 km) downstream from Little Piney Creek, and at mile 107 (172.2 km).

DRAINAGE AREA.--2,840 mi² (7,360 km²), approximately.

PERIOD OF RECORD.--April 1903 to July 1906 (published as "at Arlington") and January 1923 to current year. October to December 1922 monthly discharge only, published in WSP 1310. Gage-height records collected intermittently in the vicinity 1885-1926 and at same site since 1938 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 657.64 ft (200.449 m) above mean sea level. Prior to July 26, 1904, nonrecording gage at site 0.8 mi (1.3 km) downstream at different datum. July 26, 1904, to July 21, 1906, nonrecording gage at site 0.5 mi (0.8 km) upstream from present site at datum about 0.85 ft (0.259 m) higher than present gage. Jan. 3, 1923, to Sept. 29, 1928, nonrecording gage at site 400 ft (122 m) downstream from present site at datum 0.14 ft (0.043 m) lower than present datum. Sept. 30, 1928, to Jan. 17, 1939, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--55 years (1903-5, 1922-75), 2,537 ft³/s (71.8 m³/s), 12.13 in/yr (308 mm/yr), 1,838,000 acre-ft/yr (2,270 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 27,500 ft³/s (779 m³/s) Feb. 24 (gage height, 15.63 ft or 4.764 m); minimum, 600 ft³/s (17.0 m³/s) Aug. 12, 13 (gage height, 1.87 ft or 0.570 m).

Period of record: Maximum discharge, 101,000 ft³/s (2,860 m³/s) Apr. 15, 1945 (gage height, 27.7 ft or 8.44 m); minimum, 254 ft³/s (7.19 m³/s) Sept. 21, 22, 1956 (gage height, 1.24 ft or 0.378 m).

Maximum stage known about 29.0 ft (8.84 m) Jan. 6, 1897 (discharge, 120,000 ft³/s or 3,400 m³/s). A stage of 28.6 ft (8.72 m) was reached on Aug. 20, 22, 1915 (discharge, 114,000 ft³/s or 3,230 m³/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 172: 1904. WSP 566: Drainage area. WSP 1340: 1903-4, 1928(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1870	1020	1400	3140	15300	8870*	8640	9670	1260	1070	664	1760
2	1630	1010	1340	4740	14900	8240	6980	8300	1220	1040	675	1930
3	1570	1060	1310	5490	11000	7300	5910	7050	1190	1010	671	1750
4	1460	3530	1280	5150	8340	6220	5120	5190	1160	970	662	1460
5	1350	13700	1250	4520	7060	5390	4530	4340	1140	941	652	1290
6	1250	15300	1240	3970	6210	4810	4070	3900	1120	911	643	1150
7	1170	16000	1340	3480	5550	4390	3700	8830	1100	881	634	1030
8	1120	7690	1430	3130	4970	4070	3430	5060	1110	867	622	954
9	1080	5170	1490	2850	4380	4310	3210	3860	1100	847	619	898
10	1040	4990	1830	8100	3910	4440	3010	3250	1110	822	622	890
11	1010	8690	2170	15300	3580	4870	2830	2890	1180	810	613	1030
12	992	12700	2470	19400	3280	14100	2640	2650	1170	824	605	1200
13	975	11700	3060	10600	3020	16700	2490	2420	1120	816	600	1910
14	1050	7910	3250	6860	2830	14800	2390	2240	1080	795	619	3270
15	1180	5720	3140	5370	2660	10900	2290	2090	1210	774	634	3750
16	1210	4620	2840	4490	2540	8980	2210	1960	1200	750	678	2420
17	1350	3860	2560	3850	2620	8700	2140	1850	1650	737	792	2020
18	1520	3320	2330	3400	2680	10200	2140	1740	1820	723	1180	1770
19	1610	2950	2150	3070	2600	11300	2240	1660	2810	730	866	2910
20	1520	2670	1980	2780	2470	12100	2140	1610	2040	749	764	3020
21	1410	2440	1850	2570	2340	11100	2100	1670	1600	718	719	3490
22	1310	2230	1740	2370	6150	8540	2050	1600	1410	712	684	3850
23	1240	2060	1660	2180	17700	6970	2210	1530	1340	711	672	3150
24	1190	1940	1580	2060	25800	5990	5260	1490	1240	757	657	2580
25	1140	1810	1510	2030	24300	52[illegible]0	6280	1600	1190	739	662	2070
26	1110	1700	1430	1960	16600	4590	9080	1590	1160	715	1030	1790
27	1080	1610	1380	1910	9910	4570	7130	1460	1150	705	1100	1570
28	1070	1520	1330	1880	9220	7420	6050	1400	1170	693	1660	1430
29	1060	1470	1320	1860	---	13300	4920	1380	1130	685	1640	1380
30	1030	1450	1310	2470	---	15400	4720	1340	1100	674	2200	1360
31	1030	---	1850	9510	---	12000	---	1300	---	663	2090	---
TOTAL	38627	151840	56820	150490	221920	265010	121910	96920	39280	24847	27729	58802
MEAN	1246	5061	1833	4855	7926	8575	4064	3126	1309	802	894	1960
MAX	1870	16000	3250	19400	25800	16700	9080	9670	2810	1070	2200	3750
MIN	975	1010	1240	1860	2340	4070	2050	1300	1080	663	600	890
CFSM	.44	1.78	.65	1.71	2.79	3.02	1.43	1.10	.46	.28	.31	.69
IN.	.51	1.99	.74	1.97	2.91	3.48	1.60	1.27	.51	.33	.36	.77
AC-FT	76620	301200	112700	298500	440200	527200	241800	192200	77910	49280	55000	116600

CAL YR 1974 TOTAL 1271272 MEAN 3483 MAX 25100 MIN 723 CFSM 1.23 IN 16.65 AC-FT 2522000
WTR YR 1975 TOTAL 1254995 MEAN 3438 MAX 25800 MIN 600 CFSM 1.21 IN 16.44 AC-FT 2489000

PEAK DISCHARGE (BASE, 16,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-5	2400	12.16	18,000	3-13	1315	11.97	17,600
1-12	0800	14.35	23,700	3-30	0930	11.26	16,000
2-24	1430	15.63	27,500				

06934500 Missouri River at Hermann, Mo.

LOCATION.--Lat 38°42'36", long 91°26'21", in SW¼ sec.25, T.46 N., R.5 W., Montgomery County, on downstream side of third pier from right abutment of bridge on State Highway 19 at Hermann. River mile, 97.9 (157.5 km).

DRAINAGE AREA.--528,200 mi^2 (1,368,000 km^2), approximately.

PERIOD OF RECORD.--October 1897 to current year. Prior to August 1928 monthly discharge only published in WSP 1310. Gage-height records 1873-99 collected at site 480 ft (146 m) downstream are contained in reports of Missouri River Commission; since 1900 in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 481.56 ft (146.779 m) above mean sea level. Prior to Sept. 26, 1930, nonrecording gage at site 480 ft (146 m) downstream at datum 0.07 ft (0.021 m) lower. Sept. 26, 1930 to Mar. 27, 1932, nonrecording gage, Mar. 28, 1932, to June 12, 1945, water-stage recorder, June 13, 1945, to Apr. 2, 1946, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--78 years, 79,750 ft^3/s (2,259 m^3/s), 57,780,000 acre-ft/yr (71,240 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 278,000 ft^3/s (7,870 m^3/s) Apr. 26 (gage height, 27.15 ft or 8.275 m); minimum, 35,200 ft^3/s (997 m^3/s), Jan. 21 (gage height, 4.71 ft or 1.436 m).
Period of record: Maximum discharge, 676,000 ft^3/s (19,140 m^3/s) June 6, 7, 1903 (gage height, 29.5 ft or 8.99 m), discharge computed by Corps of Engineers; maximum gage height, 33.70 ft (10.272 m) Apr. 25, 1973; minimum, about 4,200 ft^3/s (119 m^3/s) Jan. 10-12, 1940; minimum gage height observed, -0.80 ft (-0.244 m) Jan. 5, 6, 1940.
Maximum stage known, 35.5 ft (10.82 m) in June 1844 (discharge, about 892,000 ft^3/s or 25,260 m^3/s computed by Corps of Engineers).

REMARKS.--Records good. Discharge measurements made 3 times a month during winter and 4 or more times monthly during rest of year. Flow partly regulated by many reservoirs above station. Records of chemical analyses are published in Section 2 of this report.

REVISIONS.--WSP 761: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50800	59600	60000	55700	149000	109000	146000	124000	122000	112000	77700	86700
2	54400	73100	54000	60000	135000	116000	130000	133000	126000	103000	75600	86900
3	55600	103000	47700	57600	120000	122000	117000	124000	115000	98800	74600	94500
4	57300	140000	51400	62400	117000	114000	116000	105000	103000	97000	74700	90400
5	53900	175000	49300	59600	108000	100000	116000	92600	95400	93400	74800	86700
6	51300	173000	44800	55200	105000	94100	111000	89000	92100	87900	75100	95300
7	48600	161000	48300	53500	107000	102000	103000	151000	90900	85800	75100	90600
8	46400	152000	66800	50700	98600	106000	91000	160000	82300	86800	75500	93900
9	46700	145000	66500	53000	95600	97000	88500	129000	73200	90000	74700	87400
10	47000	136000	65100	60400	85000	88600	85600	120000	72100	92100	73400	83200
11	48700	146000	62000	87700	80400	87700	82300	109000	77000	91600	73500	81700
12	48300	140000	64800	80400	75800	98200	86300	97300	93400	90400	73000	105000
13	50000	136000	71600	69900	71700	109000	91000	85000	117000	88600	75200	134000
14	51000	131000	82100	75000	67200	113000	87400	82900	132000	87400	77600	118000
15	58000	122000	80300	64800	63000	105000	85300	78200	119000	85600	75200	105000
16	61800	109000	67100	56500	59000	96600	88800	72900	109000	82200	76100	96400
17	57800	98600	62400	51100	71000	90200	88900	69200	111000	78600	77600	95100
18	60800	94100	62600	49800	88400	89500	89100	67200	118000	75500	76000	86500
19	60800	91100	59300	43700	96000	94900	91100	63100	128000	74200	74100	117000
20	57100	82100	57200	39000	94000	103000	97700	61700	122000	73200	72800	116000
21	52100	75600	53100	39100	87500	119000	109000	66700	128000	70800	72700	103000
22	48400	71600	47500	47800	93600	128000	104000	63900	132000	67600	75900	85500
23	47600	72000	43900	50900	154000	127000	103000	67700	121000	68100	78000	81400
24	49300	66900	40000	54000	158000	116000	152000	70600	111000	70500	79600	83400
25	47800	61900	44700	55400	139000	103000	256000	62700	116000	70300	76600	94000
26	46700	64100	41600	55500	130000	88700	268000	59500	123000	69800	85600	82000
27	47200	68900	40200	50000	122000	84000	244000	58300	133000	69500	103000	81900
28	47000	65200	44100	47000	113000	115000	196000	58600	142000	69800	118000	78500
29	46400	62200	42400	54500	---	140000	160000	63000	144000	72800	112000	80600
30	46100	57400	39200	57300	---	150000	137000	66900	127000	77000	105000	80500
31	50300	---	38300	121000	---	150000	---	79300	---	79400	93400	---
TOTAL	1595200	3133400	1698300	1826500	2886000	3356500	3721000	2731500	3375400	2559700	2503300	2781900
MEAN	51460	104400	54780	58920	103100	108300	124000	88110	112500	82570	80750	92730
MAX	61800	175000	82100	121000	158000	150000	268000	160000	144000	112000	118000	134000
MIN	46100	57400	38300	39000	59000	84000	82300	58300	72100	67600	72700	78500
AC-FT	3164000	6215000	3369000	3623000	5726000	6658000	7381000	5418000	6695000	5077000	4965000	5518000

CAL YR 1974 TOTAL 33594500 MEAN 92040 MAX 278000 MIN 38300 AC-FT 66630000
WTR YR 1975 TOTAL 32169500 MEAN 88140 MAX 268000 MIN 38300 AC-FT 63810000

07010000 Mississippi River at St. Louis, Mo.

LOCATION.--Lat 38°37'44", long 90°10'47", on downstream side of west pier of Eads Bridge at St. Louis, 15 mi (24.1 km) downstream from Missouri River, 19.2 mi (30.9 km) upstream from Meramec River, and at mile 180.0 (289.6 km) above the Ohio River.

DRAINAGE AREA.--701,000 mi² (1,816,000 km²), approximately.

PERIOD OF RECORD.--Discharge: January 1861 to current year. Monthly discharge only for some periods, published in WSP 1311.
Gage heights: March 1933 to current year in reports of Geological Survey. Since January 1861 in reports of Mississippi River Commission. Since January 1890 in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 379.94 ft (115.806 m) above mean sea level. Prior to May 5, 1934, nonrecording gage 0.4 mi (0.6 km) downstream and May 5, 1934, to Dec. 9, 1952, water-stage recorder at site 20 ft (6 m) downstream at present datum.

AVERAGE DISCHARGE.--114 years, 177,000 ft³/s (5,013 m³/s), 128,200,000 acre-ft/yr (158 km³/yr).

EXTREMES.--Current year: Maximum discharge, 483,000 ft³/s (13,700 m³/s) Apr. 27 (gage height, 29.95 ft or 9.129 m); minimum, 81,200 ft³/s (2,300 m³/s) Oct. 6 (gage height, 2.12 ft or 0.646 m).
Period of record: Maximum daily discharge, 1,019,000 ft³/s (28,900 m³/s) June 10, 11, 1903 (gage height, 38.00 ft or 11.582 m); maximum gage height, 43.23 ft (13.176 m) Apr. 28, 1973; minimum daily discharge, 18,000 ft³/s (510 m³/s) Dec. 21-23, 1863; minimum gage height, -6.11 ft (-1.862 m) Jan. 16, 1940.
Flood of June 27, 1844, reached a stage of 41.32 ft (12.594 m), from floodmarks (discharge, 1,300,000 ft³/s or 36,800 m³/s), computed by Corps of Engineers. Flood in April 1785 may have reached a stage of 42.0 ft (12.80 m).

REMARKS.--Records excellent. Natural flow of stream affected by many reservoirs and navigation dams in upper Mississippi River basin and by many reservoirs and diversions for irrigation in Missouri River basin. Records of water temperatures and suspended sediment loads are published in Section 2 of this report.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.66	2.90	5.83	4.55	15.92	15.16	25.94	25.20	17.15	21.21	8.04	13.14
2	3.01	4.69	5.75	6.23	17.77	14.69	25.29	23.64	18.85	20.25	7.93	12.45
3	3.00	5.48	5.21	7.06	15.62	14.51	24.64	23.37	19.50	19.39	6.92	11.37
4	3.44	10.97	4.51	6.88	14.13	14.69	22.55	23.39	18.61	18.79	5.88	11.11
5	2.74	13.65	3.75	6.51	13.12	13.81	21.58	22.94	17.70	18.42	5.62	10.41
6	2.92	16.88	3.19	5.99	12.40	12.97	20.82	22.51	17.63	18.94	5.36	10.77
7	2.31	15.49	2.97	5.84	11.72	12.89	19.98	22.47	17.41	18.77	7.11	10.44
8	2.75	14.99	3.99	5.98	10.95	14.62	18.84	25.17	16.44	18.04	7.37	10.27
9	3.67	13.64	7.87	5.45	10.30	15.69	17.53	27.20	16.01	17.82	6.75	9.96
10	3.95	12.91	8.68	6.42	8.88	15.13	16.74	27.07	15.13	18.11	5.71	9.26
11	2.73	13.47	6.51	11.58	6.82	13.50	16.55	27.22	14.26	17.79	4.43	8.37
12	4.13	14.47	7.21	11.96	6.57	13.48	16.33	27.02	13.92	17.05	4.75	8.07
13	3.41	14.02	6.12	10.62	7.77	14.06	16.13	26.54	14.53	16.29	5.52	8.01
14	3.85	14.10	6.50	9.49	7.81	14.12	16.41	25.98	16.04	15.81	5.32	11.76
15	4.22	13.69	6.94	8.81	6.94	13.72	16.50	25.40	17.36	15.68	6.76	11.15
16	4.15	12.09	8.02	7.95	5.77	13.01	16.21	24.88	17.17	15.24	7.13	9.94
17	5.57	11.57	7.31	7.30	6.21	12.42	16.36	24.33	16.42	14.72	6.37	10.06
18	5.15	10.51	7.83	7.12	8.74	12.83	16.46	23.80	16.66	14.20	5.65	9.38
19	4.79	9.62	8.32	7.34	11.26	14.91	16.86	23.26	18.21	13.44	6.39	9.46
20	4.67	8.41	7.34	7.23	11.65	16.08	17.96	22.74	18.55	12.97	5.60	12.87
21	3.67	7.84	6.57	5.75	11.03	16.67	18.14	22.20	18.67	12.64	5.78	12.64
22	3.26	7.60	5.57	5.01	11.92	18.00	18.95	21.95	18.64	11.62	5.01	10.96
23	2.86	7.22	5.62	5.90	17.11	18.06	18.90	21.55	18.89	10.42	6.35	9.67
24	2.26	7.22	5.52	6.30	21.13	19.69	20.76	21.01	19.10	10.34	7.20	8.36
25	2.77	6.74	4.23	7.30	21.02	19.80	24.55	20.76	19.09	10.75	5.81	8.01
26	3.52	6.11	4.33	8.65	17.06	19.69	28.32	19.94	19.59	10.66	8.69	7.60
27	3.12	5.96	4.21	8.38	16.51	19.90	29.78	19.08	19.91	9.38	10.79	6.70
28	3.16	5.67	3.60	8.98	15.76	20.53	29.86	18.45	20.99	9.19	10.91	6.51
29	2.46	6.37	3.57	7.64	---	22.02	28.05	16.15	21.66	8.22	12.42	6.57
30	3.01	6.08	5.06	7.49	---	24.96	27.10	17.20	21.91	7.17	13.36	6.15
31	2.43	---	4.88	10.44	---	25.85	---	16.51	---	8.20	13.73	---
MAX	5.57	16.88	8.68	11.96	21.13	25.85	29.86	27.22	21.91	21.21	13.73	13.14
MIN	2.26	2.90	2.97	4.95	5.77	12.42	16.13	16.51	13.92	7.17	4.43	6.15

07010000 Mississippi River at St. Louis, Mo.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89600	96400	116000	116000	246000	248000	424000	383000	255000	311000	136000	192000
2	93200	112000	114000	130000	258000	241000	408000	358000	263000	298000	136000	184000
3	93900	131000	111000	141000	227000	238000	384000	355000	288000	274000	121000	172000
4	91000	182000	103000	130000	212000	238000	359000	352000	272000	263000	113000	164000
5	89600	225000	99100	128000	203000	225000	342000	342000	257000	255000	109000	161000
6	86000	251000	92600	124000	196000	215000	329000	335000	257000	262000	112000	159000
7	84700	236000	94600	116000	186000	217000	312000	342000	249000	254000	124000	157000
8	88100	224000	115000	122000	180000	234000	291000	396000	236000	243000	124000	154000
9	95200	211000	142000	115000	169000	240000	270000	426000	227000	239000	120000	151000
10	90500	208000	142000	136000	164000	238000	259000	428000	214000	246000	105000	139000
11	88100	207000	130000	177000	158000	208000	257000	431000	204000	243000	92100	130000
12	95700	213000	130000	176000	158000	210000	253000	428000	203000	237000	98200	124000
13	92300	208000	123000	162000	152000	214000	253000	421000	214000	231000	102000	140000
14	97000	206000	126000	149000	151000	214000	257000	408000	236000	230000	106000	171000
15	98100	201000	130000	145000	146000	207000	258000	397000	256000	226000	120000	162000
16	102000	191000	145000	138000	135000	198000	256000	387000	252000	221000	126000	149000
17	112000	175000	140000	132000	145000	190000	256000	376000	243000	213000	118000	150000
18	106000	163000	141000	133000	177000	204000	257000	365000	252000	206000	114000	146000
19	104000	148000	144000	137000	199000	231000	262000	354000	270000	197000	121000	154000
20	101000	143000	136000	129000	205000	251000	271000	343000	274000	192000	112000	191000
21	94500	137000	128000	123000	202000	257000	279000	333000	275000	188000	114000	182000
22	91100	133000	121600	124000	217000	279000	289000	328000	276000	175000	108000	162000
23	86100	131000	121000	127000	291000	294000	289000	320000	281000	164000	119000	149000
24	82000	133000	118000	134000	339000	309000	329000	312000	282000	165000	122000	137000
25	89000	126000	111000	147000	321000	310000	398000	306000	282000	166000	116000	135000
26	90000	115000	109000	156000	288000	387000	459000	290000	290000	165000	158000	127000
27	89000	118000	108000	158000	268000	388000	480000	274000	298000	152000	170000	121000
28	84900	119000	104000	158000	259000	328000	477000	267000	315000	149000	173000	120000
29	83400	118000	108000	150000	---	369000	452000	260000	326000	133000	191000	124000
30	87000	118000	114000	148000	---	408000	418000	247000	325000	128000	198000	123000
31	85600	---	113000	183000	---	425000	---	243000	---	136000	201000	---
TOTAL	2865000	4971400	3737300	4344000	5848000	8045000	9828000	10807000	7892000	6556000	3979300	4530000
MEAN	92420	165700	120600	140100	208900	259500	327600	348600	263100	211500	128400	151000
MAX	112000	251000	145000	183000	339000	425000	480000	431000	326000	311000	201000	192000
MIN	82000	96400	92600	115000	135000	190000	253000	243000	203000	128000	92100	120000
AC-FT	5683000	9861000	7413000	8616000	11600000	15960000	19490000	21440000	15650000	13000000	7893000	8985000

CAL YR 1974 TOTAL 86409200 MEAN 236700 MAX 579000 MIN 77700 AC-FT 171400000
WTR YR 1975 TOTAL 73403000 MEAN 201100 MAX 480000 MIN 82000 AC-FT 145600000

NOTE.--Daily discharge computed from daily mean gage height.

07010350 Meramec River at Cook Station, Mo.

LOCATION.--Lat 37°49'45", long 91°26'15", in NE¼ sec.23, T.36 N., R.5 W., Crawford County, on downstream side of right pier of bridge on State Highway M, 50 ft (15 m) downstream from Frisco Railroad bridge (Salem Branch), 1 mi (1.6 km) north of Cook Station, and 4 mi (6.4 km) upstream from Crooked Creek.

DRAINAGE AREA.--199 mi² (515 km²).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 864.51 ft (263.503 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 131 ft³/s (3.71 m³/s), 8.94 in/yr (227 mm/yr), 94,900 acre-ft/yr (117 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 16,200 ft³/s (459 m³/s) Jan. 10 (gage height, 15.15 ft or 4.618 m); minimum, 14 ft³/s (0.396 m³/s) July 4, (gage height, 2.29 ft or 0.698 m).
Period of record: Maximum discharge, 34,900 ft³/s (988 m³/s) Feb. 10, 1966 (gage height, 17.74 ft or 5.407 m), from rating curve extended above 4,000 ft³/s (113 m³/s) on basis of slope-area measurement of peak flow; minimum, 9.1 ft³/s (0.258 m³/s) Sept. 1, 1967; minimum gage height, 2.03 ft (0.619 m) Sept. 15, 16, 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	34	40	118	729	287	374	561	58	22	23	50
2	60	36	39	102	450	242	324	378	57	22	25	42
3	50	41	38	89	321	207	270	309	52	21	25	37
4	44	302	37	81	246	182	233	265	49	21	24	34
5	40	272	37	70	212	164	208	233	47	21	23	51
6	38	164	39	64	183	150	187	595	46	22	22	64
7	36	123	47	57	156	145	173	1030	42	25	20	43
8	34	100	54	74	140	138	174	457	40	24	20	36
9	34	84	52	153	124	126	153	323	37	22	19	32
10	33	142	50	5750	109	129	138	256	37	21	20	31
11	32	434	50	1550	105	207	124	220	36	21	19	35
12	32	259	50	565	98	1240	116	198	34	20	19	41
13	32	183	47	303	90	739	118	176	32	20	18	40
14	47	138	45	232	83	496	111	158	30	19	22	35
15	64	111	44	199	80	413	103	145	35	19	30	32
16	67	97	42	181	77	407	93	134	36	18	29	31
17	57	93	40	154	78	421	96	125	36	19	29	32
18	43	82	38	150	75	380	100	116	36	24	27	32
19	40	73	38	125	72	352	130	110	32	31	29	51
20	38	66	36	110	69	309	109	104	30	29	27	82
21	36	59	35	97	67	282	98	105	28	28	24	69
22	36	54	34	89	502	287	86	99	28	25	23	56
23	35	52	32	79	2600	263	222	91	28	26	21	49
24	35	50	31	75	644	256	941	85	28	34	20	44
25	34	47	29	76	411	229	964	85	27	33	20	40
26	34	44	29	71	373	212	562	82	27	28	81	37
27	35	42	28	62	366	337	398	73	25	26	63	35
28	34	40	28	63	332	1260	329	69	25	24	45	33
29	35	39	29	61	---	1470	278	66	24	24	46	32
30	37	41	29	88	---	682	1380	62	23	23	67	35
31	35	---	39	1760	---	466	---	62	---	22	66	---
TOTAL	1281	3302	1206	12648	8792	12478	8592	6772	1065	734	946	1261
MEAN	41.3	110	38.9	408	314	403	286	218	35.5	23.7	30.5	42.0
MAX	74	434	54	5750	2600	1470	1380	1030	58	34	81	82
MIN	32	34	28	57	67	126	86	62	23	18	18	31
CFSM	.21	.55	.20	2.05	1.58	2.03	1.44	1.10	.18	.12	.15	.21
IN.	.24	.62	.23	2.36	1.64	2.33	1.61	1.27	.20	.14	.18	.24
AC-FT	2540	6550	2390	25090	17440	24750	17040	13430	2110	1460	1880	2500

CAL YR 1974 TOTAL 62050 MEAN 170 MAX 3200 MIN 21 CFSM .85 IN 11.60 AC-FT 123100
WTR YR 1975 TOTAL 59077 MEAN 162 MAX 5750 MIN 18 CFSM .81 IN 11.04 AC-FT 117200

PEAK DISCHARGE (BASE, 2,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-10	1445	15.15	16,200	3-29	0145	8.41	2,110
1-31	1330	9.34	2,760	4-30	0745	9.55	2,960
2-23	0715	11.33	5,130	5-6	2115	8.35	2,070

07010500 Maramec Spring near St. James, Mo.

LOCATION.--Lat 37°57'20", long 91°32'57", in NW¼SE¼ sec.1, T.37 N., R.6 W., Phelps County, 650 ft (198 m) downstream from spring outlet, 1 mi (1.6 km) upstream from Meramec River, and 6 mi (9.7 km) southeast of St. James.

PERIOD OF RECORD.--March 1903 to July 1906, November 1921 to October 1929, October 1965 to current year. Monthly discharge only for some months prior to October 1905 published in WSP 1311. Occasional discharge measurements 1930, 1932, 1934, 1939-40, 1946, 1953-55, 1957, 1961-65.

GAGE.--Nonrecording gage. Datum of gage is 773.97 ft (235.906 m) above mean sea level. Prior to Nov. 11, 1921, gage at site 150 ft (45.7 m) upstream at different datum. Nov. 11, 1921, to June 4, 1928, at site 50 ft (15.2 m) upstream at datum 0.21 ft (0.064 m) higher.

AVERAGE DISCHARGE.--19 years (1903-05, 1922-29, 1965-75), 153 ft^3/s (4.33 m^3/s), 110,800 acre-ft/yr (137 hm^3/yr).

EXTREMES.--Current year: Maximum daily discharge, 500 ft^3/s (14.2 m^3/s) Jan. 10, Apr. 25; minimum daily, 94 ft^3/s (2.66 m^3/s) July 24-26.

Period of record: Maximum discharge, 650 ft^3/s (18.4 m^3/s), estimated, several days during 1927 and 1928, backwater from Meramec River; minimum measured, 56 ft^3/s (1.59 m^3/s) Aug. 1, 1934.

REMARKS.--Records poor. Occasional backwater from Meramec River.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	126	117	99	233	441	346	311	300	165	122	99	190
2	126	117	99	233	381	346	311	300	155	117	99	300
3	126	117	104	233	381	288	227	294	155	117	99	300
4	140	244	104	233	323	288	222	294	155	117	99	222
5	126	277	104	180	323	277	222	238	155	112	99	150
6	126	249	104	185	300	260	222	233	155	112	99	170
7	117	190	112	185	272	227	222	450	155	112	99	170
8	122	175	117	165	244	249	222	350	145	108	99	145
9	122	175	117	160	217	185	222	283	145	108	104	122
10	122	175	117	500	217	185	222	227	145	108	104	122
11	122	369	117	450	217	185	217	227	145	108	104	122
12	126	329	117	416	217	369	217	222	145	104	104	122
13	126	317	140	358	222	352	217	222	145	104	104	122
14	126	233	122	300	222	340	217	222	145	104	104	122
15	126	180	112	244	196	317	217	217	145	104	108	122
16	130	155	112	244	196	317	217	217	145	104	108	122
17	130	130	112	222	170	317	217	217	140	104	108	122
18	130	135	117	196	170	288	201	206	140	99	108	170
19	130	135	117	196	170	288	212	155	140	99	108	306
20	135	135	117	150	175	288	112	155	135	99	108	306
21	135	112	117	150	175	260	206	145	135	99	108	170
22	135	112	117	150	175	227	206	145	135	99	112	170
23	126	117	122	155	450	227	460	145	180	99	112	165
24	126	104	122	155	398	227	460	135	180	94	112	165
25	126	104	122	155	398	227	500	135	130	94	112	165
26	117	104	122	155	398	227	490	135	126	94	400	117
27	117	99	126	155	346	227	480	175	126	117	294	117
28	112	99	126	155	346	283	470	175	126	140	165	117
29	112	99	126	155	----	393	460	175	122	140	165	117
30	112	99	126	160	----	393	447	165	122	117	165	217
31	112	----	126	450	----	335	----	165	----	117	190	----
TOTAL	3864	5003	3612	7078	7740	8738	8626	6724	4337	3372	4019	5047
MEAN	125	167	117	228	276	282	288	217	145	109	130	168
MAX	140	369	140	500	450	393	500	450	180	140	400	306
MIN	112	99	99	150	170	185	112	135	122	94	99	117
AC-FT	7660	9920	7160	14040	15350	17330	17110	13340	8600	6690	7970	10010

CAL YR 1974 TOTAL 72342 MEAN 198 MAX 400 MIN 99 AC-FT 143500
WTR YR 1975 TOTAL 68160 MEAN 187 MAX 500 MIN 94 AC-FT 135200

MERAMEC RIVER BASIN

07011500 Green Acre Branch near Rolla, Mo.

LOCATION.--Lat 37°54'50", long 91°43'37", in NW¼SW¼ sec.20, T.37 N., R.7 W., Phelps County, on left bank 35 ft (10.7 m) upstream from double concrete box culvert under State Highway 72, 0.4 mi (0.6 km) upstream from mouth, and 3 mi (4.8 km) southeast of Rolla.

DRAINAGE AREA.--0.62 mi² (1.606 km²).

PERIOD OF RECORD.--November 1947 to September 1975 (discontinued).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 958.82 ft (292.248 m) above mean sea level.

AVERAGE DISCHARGE.--27 years, 0.392 ft³/s (0.011 m³/s), 8.58 in/yr (218 mm/yr), 284 acre-ft/yr (350,200 m³/yr).

EXTREMES.--Current year: Maximum discharge, 87 ft³/s (2.46 m³/s) Jan. 10 (gage height, 2.61 ft or 0.796 m); no flow on many days.
Period of record: Maximum discharge, 1,900 ft³/s (53.8 m³/s) June 9, 1950 (gage height, 6.85 ft or 2.088 m), from rating curve extended above 520 ft³/s (14.7 m³/s) on basis of slope-area measurement of peak flow; no flow on many days each year.

REMARKS.--Records fair except period of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.01	.03	.29	3.4	.60	.42	.15	.01		0	0
2	0	.02	.05	.35	2.1	.35	.35	.13	.01		0	0
3	0	.52	.03	.35	1.3	.25	.29	.13	.01		0	0
4	0	2.3	.03	.22	1.0	.22	.25	.09	.01		0	0
5	0	.35	.09	.17	2.6	.22	.19	.07	.01		0	0
6	0	.17	.15	.15	.86	.19	.19	.13	0		0	0
7	0	.13	.19	.15	.70	.19	.19	.13	0		0	0
8	0	.09	.07	.17	.70	.15	.19	.07	0		0	0
9	0	.07	.06	.17	.50	.15	.17	.06	0		0	0
10	0	3.9	.06	13	.42	.29	.13	.05	0		0	0
11	0	1.4	.17	1.2	.35	6.3	.13	.33	0		0	2.0
12	0	.35	.17	.50	.29	9.0	.11	.09	0		0	.30
13	.01	.22	.13	.29	.29	2.3	.11	.06	0		0	.10
14	.18	.17	.09	.25	.35	1.7	.15	.05	0		0	0
15	.01	.15	.08	.25	.35	2.3	.13	.04	.05		0	0
16	.01	.13	.07	.25	.86	1.9	.11	.04	.08		0	0
17	.01	.11	.06	.19	1.3	1.2	.08	.03	.03		0	0
18	.01	.11	.07	.22	.60	1.7	.46	.02	0		0	0
19	0	.11	.07	.22	.42	1.3	.11	.02	0		0	3.0
20	0	.07	.07	.17	.35	.70	.07	.05	.24		0	.50
21	0	.07	.05	.17	.29	.70	.06	.09	.01		0	.10
22	0	.06	.05	.15	19	.35	.05	.04	1.1		0	.05
23	0	.06	.07	.15	3.6	.29	.99	.02	.07		0	.01
24	0	.04	.06	.22	2.3	.19	6.6	.03	.01		0	.01
25	0	.04	.05	.42	2.6	.15	1.2	.08	0		2.4	.01
26	0	.03	.04	.22	3.4	.13	.50	.04	0		.19	.01
27	0	.03	.06	.19	1.5	4.2	.25	.01	0		0	.01
28	0	.02	.07	.29	1.3	5.5	.17	.04	0		0	.01
29	.01	.04	.11	.54	---	2.1	.17	.03	0		.50	.01
30	.01	.04	.09	9.8	---	1.0	.25	.01	0		.10	.01
31	.01	---	2.1	5.8	---	.25	---	.01	---		0	---
TOTAL	.27	10.81	4.49	35.71	52.73	45.87	14.07	2.14	1.64	0	3.19	6.13
MEAN	.009	.36	.14	1.15	1.88	1.48	.47	.069	.055	0	.10	.20
MAX	.18	3.9	2.1	13	19	9.0	6.6	.33	1.1	0	2.4	3.0
MIN	0	.01	.03	.15	.29	.13	.05	.01	0	0	0	0
CFSM	.01	.58	.23	1.85	3.03	2.39	.76	.11	.09	0	.16	.32
IN.	.02	.65	.27	2.14	3.16	2.75	.84	.13	.10	0	.19	.37
AC-FT	.5	21	8.9	71	105	91	28	4.2	3.3	0	6.3	12

CAL YR 1974 TOTAL 144.05 MEAN .39 MAX 9.7 MIN 0 CFSM .63 IN 8.63 AC-FT 286
WTR YR 1975 TOTAL 177.05 MEAN .49 MAX 19 MIN 0 CFSM .79 IN 10.61 AC-FT 351

PEAK DISCHARGE (BASE, 100 FT³/S).--No peak above base.

07013000 Meramec River near Steelville, Mo.

LOCATION.--Lat 37°59'58", long 91°21'39", in NE¼ sec.21, T.38 N., R.4 W., Crawford County, on left bank 20 ft (6 m) downstream from railroad bridge, 400 ft (123 m) upstream from highway bridge, 0.8 mi (1.3 km) upstream from Whittenburg Creek, 1.5 mi (2.4 km) north of Steelville, and at mile 146.45 (235.6 km).

DRAINAGE AREA.--781 mi² (2,023 km²).

PERIOD OF RECORD.--October 1922 to current year. Prior to January 1923 monthly discharges only, published in WSP 1311. Gage-height records for 1916-33 at site 1 mi (1.6 km) upstream in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 681.68 ft (207.776 m) above mean sea level. Prior to May 24, 1934, July 20, 1966 to July 20, 1967, nonrecording gage, and May 24, 1934 to Oct. 10, 1942, water-stage recorder at site 400 ft (122 m) downstream. July 21, 1967 to Feb. 13, 1973 at site 1,900 ft (579 m) downstream and at datum 2.0 ft (0.61 m) lower.

AVERAGE DISCHARGE.--53 years, 571 ft³/s (16.17 m³/s), 9.93 in/yr (252 mm/yr), 413,700 acre-ft/yr (510 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 18,700 ft³/s (530 m³/s) Jan. 11 (gage height, 15.88 ft or 4.840 m); minimum, 142 ft³/s (4.02 m³/s) Aug. 24, 25 (gage height, 1.64 ft or 0.500 m).

Period of Record; Maximum discharge, 47,800 ft³/s (1,350 m³/s) June 26, 1935 (gage height, 23.39 ft or 7.129 m); maximum gage height, 24.30 ft (7.407 m) June 9, 1945; minimum discharge, 74 ft³/s (2.10 m³/s) July 22, 1934.

Maximum stage known, 26.5 ft (8.08 m) Aug. 20, 1915 (discharge, 60,000 ft³/s or 1,700 m³/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 897: 1939. WSP 1007: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	493	200	247	484	6700	1510	1490	3340	325	204	172	464
2	376	195	240	601	2610	1330	1270	1450	318	197	172	391
3	320	195	233	551	1910	1150	1100	1120	310	194	175	317
4	274	400	228	542	1460	1020	964	961	304	189	175	270
5	295	1500	226	407	1240	927	866	845	298	185	168	240
6	250	2000	224	438	1160	868	781	803	288	196	165	235
7	230	1200	233	404	995	817	732	3470	277	201	162	260
8	220	600	272	382	883	756	687	2070	269	194	156	237
9	210	489	295	453	801	708	664	1320	266	191	153	215
10	200	498	289	2750	708	709	615	1030	270	189	153	205
11	200	1560	282	14600	673	698	568	892	266	182	150	233
12	190	1050	280	4620	642	3780	531	822	259	178	148	259
13	190	1070	300	1520	595	4520	488	734	257	178	145	295
14	300	797	292	1140	560	2320	489	683	250	174	145	262
15	400	659	282	941	545	1690	484	625	262	169	145	237
16	500	572	261	821	522	1550	469	575	259	168	150	229
17	400	517	251	716	518	1540	447	534	277	168	165	222
18	300	474	244	649	555	1450	453	506	268	168	165	219
19	280	439	241	609	514	1380	514	485	268	172	168	251
20	260	398	232	536	484	1250	584	465	252	203	162	480
21	240	367	229	487	459	1130	545	460	248	198	162	432
22	230	346	220	442	1230	1040	485	450	234	197	156	367
23	220	327	219	408	8500	1010	542	431	246	191	148	321
24	220	312	209	380	6720	925	3290	409	313	199	145	287
25	220	297	201	386	2290	845	5400	398	262	199	145	251
26	220	273	196	388	1830	775	3000	398	244	205	644	237
27	220	270	193	372	1760	798	1750	387	229	208	799	225
28	210	262	191	359	1660	3260	1370	364	219	198	458	215
29	210	250	193	370	---	6280	1170	349	218	188	372	211
30	200	253	197	472	---	3410	1040	343	211	181	437	208
31	200	---	237	4260	---	1910	---	334	---	175	496	---
TOTAL	8278	18570	7437	41568	48532	51386	33388	27053	7967	5839	7156	8275
MEAN	267	619	240	1341	1733	1657	1113	873	266	188	231	276
MAX	500	2000	300	14600	8500	6280	5400	3470	325	208	799	480
MIN	190	195	191	359	459	698	447	334	211	168	145	205
CFSM	.34	.79	.31	1.72	2.22	2.12	1.43	1.12	.34	.24	.30	.35
IN.	.39	.88	.35	1.98	2.31	2.45	1.59	1.29	.38	.28	.34	.39
AC-FT	16420	36830	14750	82450	96260	101900	66230	53660	15800	11580	14190	16410

CAL YR 1974 TOTAL 299672 MEAN 821 MAX 9950 MIN 190 CFSM 1.05 IN 14.27 AC-FT 594400
WTR YR 1975 TOTAL 265419 MEAN 727 MAX 14600 MIN 145 CFSM .93 IN 12.64 AC-FT 526500

PEAK DISCHARGE (BASE, 6,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	1615	15.88	18,700	3-29	1815	8.78	6,890
2-1	0915	10.10	8,740	4-25	0330	8.51	6,520
2-24	0345	11.82	11,250				

07014500 Meramec River near Sullivan, Mo.

LOCATION.--Lat 38°09'30", long 91°06'30", in SE¼NE¼ sec.35, T.40 N., R.2 W., Crawford County, on right bank at upstream side of Sappington Bridge, 3.8 mi (6.1 km) downstream from Brazil Creek, 4.0 mi (6.4 km) southeast of Sullivan, and at mile 113.2 (182.1 km).

DRAINAGE AREA.--1,475 mi² (3,820 km²).

PERIOD OF RECORD.--September 1921 to September 1933, October 1943 to current year. Monthly discharge only for October 1943, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 581.82 ft (177.339 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 21, 1952, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--44 years, 1,183 ft³/s (33.50 m³/s), 10.89 in/yr (277 mm/yr), 857,100 acre-ft/yr (1,057 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 26,900 ft³/s (762 m³/s) Jan. 11 (gage height, 20.12 ft or 6.133 m); minimum daily, 353 ft³/s (9.97 m³/s) Aug. 13, 14.
Period of record: Maximum discharge, 77,300 ft³/s (2,190 m³/s) June 9, 1945 (gage height, 32.0 ft or 9.75 m); minimum, 131 ft³/s (3.71 m³/s) Sept. 20, 22, 1956 (gage height, 1.27 ft or 0.387 m).
Flood in August 1915, reached a stage of 33.5 ft (10.21 m), from information by local residents, (discharge, 90,000 ft³/s or 2,550 m³/s).

REMARKS.--Records good. Water diverted from river 0.5 mi (0.8 km) above gage by mining company. Records of chemical analyses are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 1007: 1922, 1923(M), 1924-30, 1933, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	915	464	541	719	11500	3180	3400	4390	684	395	388	882
2	782	440	532	1180	7550	2800	2800	3190	676	388	389	759
3	660	464	524	1180	4360	2440	2450	2300	648	382	457	648
4	588	580	514	1100	3230	2160	2160	2000	627	379	473	578
5	544	1480	511	1020	2680	1970	1950	1800	613	376	427	584
6	504	2250	515	915	2410	1820	1790	2750	595	400	400	648
7	488	1530	547	836	2130	1780	1660	6580	575	418	385	636
8	476	1170	578	796	1890	1690	1580	6500	559	422	374	580
9	472	950	603	975	1730	1580	1520	3700	547	412	367	538
10	460	935	606	9010	1580	1570	1440	2500	552	408	363	504
11	447	1060	599	22600	1670	1590	1360	2080	555	395	360	548
12	441	3090	598	15800	1400	5880	1280	2060	542	390	358	615
13	440	2380	595	3820	1300	9550	1210	1870	527	388	353	634
14	460	1730	594	2610	1220	5900	1170	1640	510	387	353	618
15	516	1390	578	2120	1170	3770	1150	1480	523	385	361	565
16	564	1160	564	1810	1130	3220	1120	1350	524	381	379	531
17	580	1010	546	1600	1120	3150	1110	1230	540	385	923	545
18	556	905	534	1420	1130	3010	1120	1140	541	387	1460	582
19	520	836	527	1320	1110	2820	1260	1070	518	395	599	1980
20	492	778	513	1190	1050	2630	1320	1010	498	462	504	1390
21	468	724	503	1100	1010	2380	1240	987	475	595	442	1260
22	452	678	494	980	2050	2210	1140	949	461	536	407	989
23	444	647	488	920	12300	2140	1380	905	453	630	387	822
24	440	624	481	875	17100	2030	11300	851	484	642	370	716
25	436	600	471	865	6910	1900	12400	823	490	544	512	637
26	432	586	458	840	4260	1740	8070	814	463	529	2000	586
27	436	564	456	822	3770	2030	4400	792	439	495	1890	550
28	436	543	454	796	3520	5480	3150	761	421	465	1260	523
29	440	533	460	796	---	11100	2630	737	410	437	925	506
30	444	540	459	1130	---	9890	2370	720	403	414	1460	489
31	444	---	520	5180	---	4840	---	703	---	399	986	---
TOTAL	15785	31219	16363	86325	102080	108250	80930	59762	15853	13613	20292	21443
MEAN	509	1041	528	2785	3646	3492	2698	1928	528	439	655	715
MAX	915	3090	606	22600	17100	11100	12400	6580	684	642	2000	1980
MIN	432	440	454	719	1010	1570	1110	703	403	376	353	489
CFSM	.35	.71	.36	1.89	2.47	2.37	1.83	1.31	.36	.30	.44	.48
IN.	.40	.79	.41	2.18	2.57	2.73	2.04	1.51	.40	.34	.51	.54
AC-FT	31310	61920	32460	171200	202500	214700	160500	118500	31440	27000	40250	42530

CAL YR 1974 TOTAL 604957 MEAN 1657 MAX 13400 MIN 354 CFSM 1.12 IN 15.26 AC-FT 1200000
WTR YR 1975 TOTAL 571915 MEAN 1567 MAX 22600 MIN 353 CFSM 1.06 IN 14.42 AC-FT 1134000

PEAK DISCHARGE (BASE, 8,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	0730	20.12	26,900	3-13	0530	12.45	10,200
2-1	0845	13.58	11,900	3-29	2100	14.04	12,900
2-23	2315	18.35	22,100	4-24	1100	14.76	14,200

07015000 Bourbeuse River near St. James, Mo.

LOCATION.--Lat 38°02'00", long 91°38'53", in NW¼NW¼ sec.12, T.38 N., R.7 W., Phelps County, on left bank 650 ft (198 m) upstream from bridge on State Highway 68, 3 mi (4.8 km) northwest of St. James, and at mile 138.8 (223.3 km).

DRAINAGE AREA.--21.3 mi^2 (55.2 km^2).

PERIOD OF RECORD.--November 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 899.46 ft (274.155 m) above mean sea level.

AVERAGE DISCHARGE.--27 years, 16.7 ft^3/s (0.473 m^3/s), 10.65 in/yr (271 mm/yr), 12,100 acre-ft/yr (14.9 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 4,910 ft^3/s (139 m^3/s) March 11 (gage height, 9.32 ft or 2.841 m); no flow on many days.

Period of record: Maximum discharge, 8,250 ft^3/s (233.6 m^3/s) Oct. 11, 1949 (gage height, 11.08 ft or 3.377 m); no flow at times in 1953-57, 59-64, 66-75.

Maximum stage known, 14.0 ft (4.267 m) June 8, 1945; flood of June 8, 1947 reached a stage of 12.04 ft (3.670 m), from floodmark and information by local resident.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	5.6	6.4	41	119	45	18	18	1.4	.02	0	.37
2	.70	6.1	6.7	24	79	27	13	12	1.1	.01	0	.21
3	.40	8.4	5.3	33	41	20	9.9	9.9	.94	0	0	.14
4	.17	31	4.5	20	29	16	7.3	7.5	.71	0	0	.10
5	.19	13	5.8	15	48	14	5.6	5.8	.57	0	0	.19
6	.20	4.6	7.1	13	32	12	4.4	21	.38	0	0	.22
7	.20	3.0	14	13	22	15	3.3	49	.26	0	0	.19
8	.30	7.8	13	22	20	11	2.9	17	.18	0	0	.18
9	.30	10	7.9	19	15	9.7	3.0	9.8	.13	0	0	.18
10	.30	59	6.2	677	12	13	2.6	6.3	.13	0	0	.20
11	.30	33	11	52	11	430	2.3	4.9	.15	0	0	5.3
12	.30	23	18	14	11	731	1.8	3.9	.11	0	0	2.1
13	.30	17	11	6.3	9.9	103	1.5	3.1	.07	0	0	.67
14	15	14	9.0	4.3	10	46	2.1	2.3	.04	0	0	.42
15	9.0	12	8.4	3.3	11	48	1.7	1.7	.20	0	0	.36
16	6.1	9.7	7.7	3.1	15	58	2.1	1.8	.24	0	0	.36
17	4.5	8.4	7.1	2.6	46	38	2.2	2.0	.49	0	0	.42
18	3.8	7.1	6.6	2.9	27	40	2.6	1.4	.58	0	0	.59
19	3.5	6.6	6.1	3.7	20	45	3.9	.67	.28	0	0	31
20	3.1	6.1	6.0	3.1	15	26	2.5	1.5	.20	0	0	6.3
21	2.9	5.6	5.5	3.3	13	21	2.0	5.0	.23	0	0	2.3
22	2.9	5.1	5.5	3.2	797	16	1.9	2.0	27	0	0	1.1
23	2.8	4.6	5.0	3.1	192	13	31	1.7	.85	0	0	.70
24	2.6	4.2	5.0	4.5	76	11	869	1.8	.08	0	0	.53
25	2.6	3.8	5.0	12	57	9.1	123	3.2	.06	0	0	.41
26	2.6	3.5	5.0	9.5	79	9.4	41	3.0	.34	0	74	.35
27	3.1	3.1	5.0	8.6	76	161	24	1.9	.07	0	.30	.31
28	3.1	2.8	5.0	12	66	280	17	1.7	.06	0	.34	.30
29	3.8	3.3	6.0	19	---	119	19	2.5	.08	0	1.1	.43
30	4.6	4.7	10	342	---	44	33	2.1	.04	0	3.8	.58
31	5.6	---	116	413	---	26	---	1.7	---	0	.72	---
TOTAL	86.26	326.1	340.8	1802.5	1948.9	2465.2	1253.6	206.17	36.97	.03	80.26	56.51
MEAN	2.78	10.9	11.0	58.1	69.6	79.5	41.8	6.65	1.23	.001	2.59	1.88
MAX	15	59	116	677	797	731	869	49	27	.02	74	31
MIN	.17	2.8	4.5	2.6	9.9	9.1	1.5	.67	.04	0	0	.10
CFSM	.13	.51	.52	2.73	3.27	3.73	1.96	.31	.06	.00004	.12	.09
IN.	.15	.57	.60	3.15	3.40	4.31	2.19	.36	.06	.00005	.14	.10
AC-FT	171	647	676	3580	3870	4890	2490	409	73	.06	159	112

CAL YR 1974 TOTAL 7012.57 MEAN 19.2 MAX 400 MIN 0 CFSM .90 IN 12.25 AC-FT 13910
WTR YR 1975 TOTAL 8603.30 MEAN 23.6 MAX 869 MIN 0 CFSM 1.11 IN 15.02 AC-FT 17060

PEAK DISCHARGE (BASE, 1,500 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-10	0715	8.54	3,380	3-11	2330	9.32	4,910
2-22	1615	7.56	2,050	4-24	0530	8.75	3,930

MERAMEC RIVER BASIN

07015720 Bourbeuse River near High Gate, Mo.

LOCATION.--Lat 38°04'49", long 91°34'50", in SE¼NE¼ sec.4, T.39 N., R.6 W., Phelps County, on downstream side of right bridge pier on State Highway B, 1.8 mi (2.9 m) downstream from Lanes Fork, 5 mi (8.0 km) east of High Gate, and 11 mi (17.7 km) north of St. James.

DRAINAGE AREA.--135 mi² (350 km²).

PERIOD OF RECORD.--July 1965 to current year. Occasional low-flow measurements 1963, 1964.

GAGE.--Water-stage recorder. Datum of gage is 804.1 ft (245.09 m) above mean sea level (levels by Missouri State Highway Commission). Prior to Aug. 17, 1966, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--10 years, 127 ft³/s (3.597 m³/s), 12.77 in/yr (324 mm/yr), 92,000 acre-ft/yr (113 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 15,400 ft³/s (436 m³/s) Apr. 25 (gage height, 17.7 ft or 5.39 m, from floodmark); no flow July 28 to Aug. 24.

Period of record: Maximum discharge, 16,300 ft³/s (462 m³/s) Feb. 9, 1966 (gage height, 17.25 ft or 5.258 m); maximum gage height, 17.97 ft (5.477 m) Nov. 1, 1972; no flow Aug. 27 to Sept. 15, 1971, July 28 to Aug. 24, 1975.

Flood of June 1957 reached a stage of about 23 ft (7.0 m), from information by local resident.

REMARKS.--Records fair except those for periods of gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	20	30	351	532	280	104	86	7.0	1.1	0	21
2	13	20	29	202	403	162	84	64	6.5	.39	0	12
3	8.2	28	29	264	220	116	70	54	6.0	.25	0	6.0
4	5.5	370	29	179	164	93	59	46	5.0	.11	0	3.6
5	4.2	156	30	142	191	83	52	36	4.5	1.1	0	3.1
6	4.6	76	56	125	175	74	45	3190	4.0	5.2	0	2.0
7	4.8	49	127	110	144	163	40	785	4.0	4.8	0	1.4
8	3.9	38	130	114	117	117	38	199	3.5	3.2	0	.94
9	2.6	30	101	101	108	92	38	117	3.0	2.0	0	.52
10	2.3	702	88	6070	108	96	33	84	3.0	1.7	0	.20
11	1.9	441	115	514	98	507	29	68	3.0	1.2	0	3.9
12	1.7	142	231	216	81	6030	26	57	2.5	.96	0	33
13	1.5	93	160	150	75	573	24	49	2.4	.72	0	20
14	68	69	126	100	75	243	26	38	1.6	.73	0	11
15	63	55	114	80	80	240	27	30	3.6	.62	0	6.3
16	38	46	101	70	97	359	29	24	2.2	.53	0	4.7
17	23	41	89	60	305	246	28	20	5.6	.40	0	4.7
18	13	37	82	52	182	182	33	17	7.1	.38	0	4.8
19	9.1	34	77	50	143	277	57	16	4.8	.78	0	143
20	7.4	31	72	46	115	161	41	15	4.8	.89	0	87
21	5.5	27	66	38	98	121	32	37	20	.46	0	43
22	4.3	26	63	34	4430	94	26	24	55	.41	0	28
23	4.0	25	64	30	1590	79	82	14	111	.47	0	19
24	3.9	25	66	33	350	71	5000	19	31	.47	0	14
25	4.2	23	63	78	250	57	7000	19	14	.05	2.0	9.7
26	6.0	22	61	76	309	49	224	15	5.7	.10	236	6.3
27	8.3	20	58	64	375	836	145	13	2.8	.10	41	5.0
28	9.9	19	57	63	361	1490	108	11	4.4	0	35	3.9
29	12	20	64	97	---	689	84	10	2.5	0	72	6.5
30	17	28	69	1090	---	224	102	9.0	2.1	0	100	7.5
31	19	---	760	3250	---	141	---	8.0	---	0	40	---
TOTAL	390.8	2713	3207	13849	11176	13945	13686	5174.0	332.6	29.12	526.0	512.06
MEAN	12.6	90.4	103	447	399	450	456	167	11.1	.94	17.0	17.1
MAX	68	702	760	6070	4430	6030	7000	3190	111	5.2	236	143
MIN	1.5	19	29	30	75	49	24	8.0	1.6	0	0	.20
CFSM	.09	.67	.76	3.31	2.96	3.33	3.38	1.24	.08	.007	.13	.13
IN.	.11	.75	.88	3.82	3.08	3.84	3.77	1.43	.09	.008	.14	.14
AC-FT	775	5380	6360	27470	22170	27660	27150	10260	660	58	1040	1020

CAL YR 1974 TOTAL 42621.25 MEAN 116 MAX 2100 MIN .06 CFSM .86 IN 11.69 AC-FT 84140
WTR YR 1975 TOTAL 65540.58 MEAN 180 MAX 7000 MIN 0 CFSM 1.33 IN 18.06 AC-FT 130000

PEAK DISCHARGE (BASE, 3,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-10	1200	17.10	14,200	3-27	2200	9.22	3,590
1-31	0445	11.96	6,370	4-25	*	17.7	15,400
2-22	1800	15.00	10,500	5-6	1930	16.25	12,600
3-12	0430	17.10	14,200				

*Unknown

07016000 Bourbeuse River near Spring Bluff, Mo.

LOCATION.--Lat 38°18'40", long 91°16'45", in NE¼ sec.8, T.41 N., R.3 W., Franklin County, on downstream side of highway bridge, 1.0 mi (1.6 km) downstream from Boone Creek, 3.5 mi (5.6 km) northwest of Spring Bluff, 9.5 mi (15.3 km) northwest of Sullivan, and at mile 75.3 (121.2 km).

DRAINAGE AREA.--608 mi^2 (1,575 km^2).

PERIOD OF RECORD.--November 1943 to current year (discharge above 1,000 ft^3/s or 28.3 m^3/s only).

GAGE.--Nonrecording gage read once-daily between 5.5 and 7.5 ft (1.68 and 2.29 m), twice-daily between 7.5 and 15.0 ft (2.29 and 4.57 m), and bihourly above. Datum of gage is 626.34 ft (190.908 m) above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum discharge, 34,600 ft^3/s (980 m^3/s) Apr. 25 (gage height, 31.70 ft or 9.662 m).
Period of record: Maximum discharge, 50,700 ft^3/s (1,440 m^3/s) June 30, 1957 (gage height, 34.71 ft or 10.580 m).
Flood in August 1915 reached a stage of 35.7 ft (10.88 m) from information by local residents.

REMARKS.--Records fair. Discharge below 1,000 ft^3/s (28.3 m^3/s) not computed.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---		---	11000	---	---	---				
2		---		3730	6440	---	---	---				
3		---		2030	1850	---	---	---				
4		---		1920	---	---	---	---				
5		2000		---	---	---	---	---				
6		1400		---	---	---	---	---				
7		---		---	---	1320	---	18000				
8		---		---	---	---	---	9400				
9		---		---	---	---	---	1120				
10		---		8160	---	---	---	---				
11		2230		13900	---	---	---	---				
12		1140		3250	---	---	---	---				
13		---		---	---	10800	---	---				
14		---		---	---	2040	---	---				
15		---		---	---	---	---	---				
16		---		---	---	---	---	---				
17		---		---	---	---	---	---				
18		---		---	---	---	---	---				
19		---		---	---	---	---	---				
20		---		---	---	---	---	---				
21		---		---	---	---	---	---				
22		---		---	8860	---	---	---				
23		---		---	14300	---	---	---				
24		---		---	8280	---	12300	---				
25		---		---	2230	---	29900	---				
26		---		---	1190	---	6800	---				
27		---		---	---	---	---	---				
28		---		---	---	5530	---	---				
29		---		---	---	7120	---	---				
30		---		1550	---	---	---	---				
31		---		10800	---	---	---	---				
TOTAL												
MEAN												
MAX												
MIN												

PEAK DISCHARGE (BASE, 8,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	1800	24.82	15,400	3-13	1800	24.70	15,200
2-1	0300	23.40	13,300	4-25	1200	31.70	34,600
2-23	1700	25.26	16,200	5-7	1800	29.00	24,300

07016500 Bourbeuse River at Union, Mo.

LOCATION.--Lat 38°26'45", long 90°59'30", in SE¼ sec.26, T.43 N., R.1 W., Franklin County, on right bank downstream side of pier of bridge on U.S. Highway 50, 800 ft (244 m) upstream from Flat Creek, 0.5 mi (0.8 km) east of Union, 7.0 mi (11.3 km) upstream from Birch Creek, and at mile 13.4 (21.6 km). Records include flow of Flat Creek.

DRAINAGE AREA.--808 mi^2 (2,093 km^2), includes that of Flat Creek.

PERIOD OF RECORD.--June 1921 to current year. Gage-height record collected at same site since 1916 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 488.58 ft (148.919 m) above mean sea level. Prior to Oct. 1, 1948, datum of all gages 3.00 ft (0.914 m) higher. Prior to Oct. 21, 1933, nonrecording gage, at site 30 ft (9.1 m) upstream. Oct. 21, 1933, to June 11, 1944, nonrecording gage, at present site.

AVERAGE DISCHARGE.--54 years, 635 ft^3/s (17.98 m^3/s), 10.67 in/yr (271 mm/yr), 460,100 acre-ft/yr (567 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 24,000 ft^3/s (680 m^3/s) Apr. 27 (gage height, 21.26 ft or 6.480 m); minimum discharge, 48 ft^3/s (1.36 m^3/s) July 17, Aug. 17; minimum gage height, 0.79 ft (0.241 m) Aug. 17.

Period of record: Maximum discharge, 33,100 ft^3/s (937 m^3/s) July 1, 1957 (gage height, 24.44 ft or 7.449 m); minimum, 11 ft^3/s (0.31 m^3/s) Oct. 10, 1956.

Flood of Aug. 22, 1915, reached a stage of 28.5 ft (8.69 m), present datum, from floodmarks (discharge, about 50,000 ft^3/s or 1,420 m^3/s, determined from extension of rating curve for main channel based on measurements made since 1921 and study of overflow areas in vicinity of gaging station).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 957: 1941. WSP 1147: Drainage area. WSP 1281: 1924.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	74	109	2560	9060	2170	1260	819	170	90	52	469
2	108	72	107	1930	12800	2150	902	712	156	80	50	341
3	104	79	105	969	6250	2000	718	607	145	74	50	271
4	84	125	105	914	1790	983	602	518	136	69	54	215
5	116	639	106	808	1210	759	523	452	128	65	60	174
6	114	1340	110	568	1020	645	462	788	121	100	56	141
7	96	833	122	422	1040	925	415	5820	114	78	54	118
8	98	572	136	1540	868	1710	381	12800	108	76	52	102
9	105	500	278	5970	688	1590	359	17500	103	71	50	92
10	103	600	428	9700	600	958	340	3610	99	63	50	84
11	101	900	374	10200	526	958	329	950	97	57	50	122
12	96	1500	318	1890	495	4840	310	716	95	55	52	226
13	94	1300	345	746	470	8590	289	860	92	54	50	920
14	115	1000	569	607	456	12400	277	590	89	53	50	538
15	115	800	549	516	436	7700	264	467	97	52	50	323
16	213	600	430	454	442	1620	253	390	90	50	49	235
17	281	500	367	415	523	1700	246	339	89	51	49	182
18	234	400	320	382	837	1720	246	303	87	50	49	153
19	218	300	285	357	1210	1320	270	273	82	54	600	289
20	187	250	253	335	850	1310	286	245	79	58	363	350
21	170	200	229	319	680	1230	296	238	77	52	210	1140
22	150	190	208	310	2090	899	285	216	79	52	160	578
23	120	180	194	303	7170	732	470	196	87	56	116	384
24	103	170	184	297	11000	623	3760	236	112	60	90	294
25	99	160	173	294	14300	546	9160	237	218	70	81	233
26	95	150	163	294	3190	497	17300	251	164	66	472	191
27	88	140	156	315	1960	625	20500	221	174	62	2250	160
28	84	130	150	345	2120	2060	2560	290	154	60	785	138
29	83	120	150	372	---	6330	1060	272	122	58	851	123
30	80	110	149	660	---	7530	830	209	103	56	861	115
31	77	---	539	5000	---	2740	---	181	---	54	497	---
TOTAL	3812	13934	7711	48992	84081	79860	64953	51306	3467	1946	8263	8701
MEAN	123	464	249	1580	3003	2576	2165	1655	116	62.8	267	290
MAX	281	1500	569	10200	14300	12400	20500	17500	218	100	2250	1140
MIN	77	72	105	294	436	497	246	181	77	50	49	84
CFSM	.15	.57	.31	1.96	3.72	3.19	2.68	2.05	.14	.08	.33	.36
IN.	.18	.64	.36	2.26	3.87	3.68	2.99	2.36	.16	.09	.38	.40
AC-FT	7560	27640	15290	97180	166800	158400	128800	101800	6880	3860	16390	17260

CAL YR 1974 TOTAL 229375 MEAN 628 MAX 9570 MIN 39 CFSM .78 IN 10.56 AC-FT 455000
WTR YR 1975 TOTAL 377026 MEAN 1033 MAX 20500 MIN 49 CFSM 1.28 IN 17.36 AC-FT 747800

PEAK DISCHARGE (BASE, 7,500 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	0900	16.09	13,200	3-30	0745	12.01	7,820
2-2	1900	16.50	13,800	4-27	0445	21.26	24,000
2-25	1145	17.27	15,200	5-9	1015	19.01	18,600
3-14	2315	16.60	14,000				

07017200 Big River at Irondale, Mo.

LOCATION.--Lat 37°49'48", long 90°41'27", in SE¼SW¼ sec.15, T.36 N., R.3 E., Washington County, on right bank 50 ft (15 m) upstream from bridge on State Highway V, 0.2 mi (0.3 km) upstream from Mill Creek, and 0.8 mi (1.3 km) west of Irondale.

DRAINAGE AREA.--175 mi^2 (453 km^2).

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 753.28 ft (229.600 m) above mean sea level (Missouri State Highway Commission benchmark). July 1-15, 1965, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--10 years, 200 ft^3/s (5.664 m^3/s), 15.52 in/yr (394 mm/yr), 144,900 acre-ft/yr (179 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 17,800 ft^3/s (504 m^3/s) Feb. 22 (gage height, 18.13 ft or 5.526 m); minimum, 13 ft^3/s (0.368 m^3/s) July 6 (gage height, 1.09 ft or 0.332 m).
Period of record: Maximum discharge, 43,200 ft^3/s (1,220 m^3/s) Nov. 1, 1972 (gage height, 27.92 ft or 8.510 m, from floodmarks), from rating extended above 13,000 ft^3/s (368 m^3/s) on basis of step-backwater computations and indirect measurement of peak flow of February 1966 flood; minimum, 2.2 ft^3/s (0.062 m^3/s) Sept. 16, 1971.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	40	47	282	990	198	450	203	43	16	20	61
2	55	39	47	201	758	157	320	169	40	15	22	50
3	47	43	46	293	432	129	300	152	36	15	23	41
4	42	414	45	229	315	111	240	135	34	14	24	37
5	39	311	45	183	272	98	200	118	31	14	22	191
6	38	188	45	156	234	163	170	287	30	39	22	81
7	35	140	55	137	180	284	150	752	28	53	21	56
8	34	113	61	231	155	227	140	1310	27	28	19	45
9	33	96	59	291	133	191	130	582	26	22	19	37
10	33	100	57	7140	112	212	120	301	27	20	20	35
11	32	354	57	1310	112	267	110	275	28	20	20	39
12	32	243	57	494	109	2830	100	399	27	19	20	54
13	33	175	56	317	90	1170	95	242	22	18	21	49
14	47	140	55	249	90	644	92	190	20	17	25	42
15	77	117	57	208	88	617	90	158	25	16	32	37
16	62	101	57	177	84	635	90	131	25	15	51	36
17	52	90	55	148	98	584	92	109	24	16	46	35
18	49	81	52	140	93	454	92	98	24	21	88	35
19	45	75	51	131	85	499	218	87	20	38	48	636
20	43	68	50	114	78	366	147	77	18	305	32	260
21	41	60	49	103	73	309	124	72	16	79	29	132
22	39	56	46	93	5320	356	110	63	15	41	24	95
23	38	54	45	86	3720	282	446	58	16	217	22	74
24	40	53	45	84	1130	272	1820	55	19	517	20	64
25	40	51	45	93	594	218	2450	58	24	131	19	58
26	39	48	43	87	474	188	738	60	22	61	738	52
27	39	45	43	80	320	743	431	48	20	42	166	47
28	38	43	43	78	248	4030	316	43	19	31	86	45
29	40	42	45	75	---	2320	247	45	18	24	64	42
30	40	44	48	187	---	821	243	47	17	21	201	52
31	40	---	108	3310	---	520	---	44	---	19	90	---
TOTAL	1328	3424	1614	16707	16387	19895	10271	6368	741	1904	2054	2518
MEAN	42.8	114	52.1	539	585	642	342	205	24.7	61.4	66.3	83.9
MAX	77	414	108	7140	5320	4030	2450	1310	43	517	738	636
MIN	32	39	43	75	73	98	90	43	15	14	19	35
CFSM	.24	.65	.30	3.08	3.34	3.67	1.95	1.17	.14	.35	.38	.48
IN.	.28	.73	.34	3.55	3.48	4.23	2.18	1.35	.16	.40	.44	.54
AC-FT	2630	6790	3200	33140	32500	39460	20370	12630	1470	3780	4070	4990

CAL YR 1974 TOTAL 78134.5 MEAN 214 MAX 3090 MIN 7.7 CFSM 1.22 IN 16.61 AC-FT 155000
WTR YR 1975 TOTAL 83211.0 MEAN 228 MAX 7140 MIN 14 CFSM 1.30 IN 17.69 AC-FT 165000

PEAK DISCHARGE (BASE, 3,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-10	1300	15.43	13,000	3-28	1630	11.00	7,100
1-31	0615	10.70	5,980	4-25	0545	9.65	4,680
2-22	2030	18.13	17,800	5-8	1300	8.52	3,520
3-12	0300	9.11	4,530				

07017500 Dry Branch near Bonne Terre, Mo.

LOCATION.--Lat 37°55'46", long 90°27'40", at west-central edge of Survey 3062, T.37 N., R.5 E., St. Francois County, on downstream side of bridge on County Highway K, 0.5 mi (0.8 km) upstream from Terre Bleue Creek, and 4.5 mi (7.2 km) east of junction of State Highway 47 and U.S. Highway 67 at Bonne Terre.

DRAINAGE AREA.--3.35 mi² (8.68 km²).

PERIOD OF RECORD.--September 1955 to September 1975 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 710 ft (216.4 m), from topographic map.

AVERAGE DISCHARGE.--20 years, 2.82 ft³/s (0.080 m³/s), 11.43 in/yr (290 mm/yr), 2,040 acre-ft/yr (2.52 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 646 ft³/s (18.3 m³/s) Feb. 22 (gage height, 3.62 ft or 1.103 m); no flow on many days.

Period of record: Maximum discharge, 1,520 ft³/s (43.0 m³/s) June 30, 1957 (gage height, 5.55 ft or 1.692 m), from rating curve extended above 300 ft³/s (8.50 m³/s) on basis of contracted-opening measurement of peak flow; no flow at times most years.

REMARKS.--Records good.

REVISIONS.--WRD No. 1971: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.49	.07	.45	4.7	16	3.5	3.9	.60	1.6	0	0	.18
2	.22	.07	.60	4.5	10	2.7	3.5	.60	1.4	0	0	.10
3	.16	.09	.60	6.8	5.8	2.4	2.7	.35	1.0	0	.01	.09
4	.12	9.5	.60	3.7	4.8	2.3	2.5	.35	.69	0	0	.08
5	.12	2.8	.60	3.1	5.1	2.3	2.0	.22	.52	0	0	.08
6	2.7	1.5	.96	2.7	4.0	2.0	1.9	71	.33	4.7	0	.05
7	.09	1.0	1.7	2.3	2.9	8.4	1.5	18	.22	1.8	0	.03
8	.07	.60	1.6	12	2.9	3.7	1.5	5.5	.13	.96	0	.03
9	.07	.48	1.0	4.8	2.0	3.1	1.3	4.2	.11	.47	0	0
10	.07	1.3	1.0	102	1.8	3.6	1.0	3.6	.12	.15	0	.01
11	.07	4.0	1.1	8.3	2.3	36	1.0	7.6	.21	.03	0	.08
12	.07	2.2	1.4	4.4	2.2	101	.95	6.0	.11	0	0	.05
13	.07	1.5	1.0	3.1	2.0	12	.60	4.5	.06	0	0	.02
14	1.3	1.0	1.0	2.6	2.2	7.2	.89	3.8	.03	0	0	0
15	1.8	.73	1.0	2.4	2.5	6.4	1.0	3.4	.83	0	0	0
16	.49	.60	.84	2.1	3.0	5.6	.95	2.9	.56	0	0	0
17	.34	.60	.60	1.8	3.4	4.0	.86	2.5	.89	1.7	0	0
18	.25	.44	.60	2.2	2.6	4.2	.78	2.4	.60	1.6	0	0
19	.22	.35	.93	2.0	2.5	5.0	1.2	2.0	.36	1.4	0	19
20	.15	.35	.72	1.3	2.0	3.6	.70	1.7	.18	1.8	0	1.3
21	.12	.35	.60	1.3	2.0	3.4	.60	1.5	.08	1.1	0	.48
22	.12	.33	.59	1.1	161	4.8	.60	1.3	.01	.30	0	.26
23	.12	.27	.60	1.1	58	3.5	3.6	1.0	0	.58	0	.22
24	.11	.29	.59	1.3	13	3.2	58	1.0	0	.97	0	.14
25	.12	.25	.57	1.9	9.6	2.5	38	8.1	0	.10	0	.12
26	.09	.22	.42	1.2	6.4	3.0	4.8	2.9	2.0	.02	8.3	.12
27	.07	.22	.37	1.0	4.8	28	2.5	1.3	.42	0	.22	.11
28	.07	.22	.60	1.2	3.9	77	2.0	1.0	.07	0	.10	.07
29	.08	.22	.70	1.3	---	17	1.0	2.1	0	0	2.0	.07
30	.07	.30	.60	23	---	6.8	1.5	1.8	0	0	6.2	.12
31	.07	---	5.9	53	---	4.9	---	1.5	---	0	.37	---
TOTAL	9.91	31.85	29.84	264.2	338.7	373.1	143.33	164.72	12.53	17.68	17.20	22.81
MEAN	.32	1.06	.96	8.52	12.1	12.0	4.78	5.31	.42	.57	.55	.76
MAX	2.7	9.5	5.9	102	161	101	58	71	2.0	4.7	8.3	19
MIN	.07	.07	.37	1.0	1.8	2.0	.60	.22	0	0	0	0
CFSM	.09	.29	.26	2.33	3.32	3.29	1.31	1.45	.12	.16	.15	.21
IN.	.10	.32	.30	2.69	3.45	3.80	1.46	1.68	.13	.18	.18	.23
AC-FT	20	63	59	524	672	740	284	327	25	35	34	45

CAL YR 1974 TOTAL 1303.25 MEAN 3.57 MAX 98 MIN 0 CFSM .98 IN 13.28 AC-FT 2580
WTR YR 1975 TOTAL 1425.87 MEAN 3.91 MAX 161 MIN 0 CFSM 1.07 IN 14.53 AC-FT 2830

PEAK DISCHARGE (BASE, 300 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-10	0915	3.13	450	4-24	2245	3.12	435
2-22	1530	3.62	646	5-6	1800	3.37	534
3-11	2230	2.80	328				

07018000 Big River near De Soto, Mo.

LOCATION.--Lat 38°07'20", long 90°40'33", in SW¼NW¼ sec.11, T.39 N., R.3 E., Jefferson County, near right bank on downstream side of pier of Mammoth Bridge, 300 ft (91 m) upstream from Mammoth Creek, 1.5 mi (2.4 km) downstream from Mineral Fork, 6.5 mi (10.5 km) west of De Soto, and at mile 59.2 (95.3 km). Records include flow from Mammoth Creek.

DRAINAGE AREA.--718 mi² (1,860 km²), includes that of Mammoth Creek.

PERIOD OF RECORD.--October 1948 to current year. Prior to May 1949 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 538.79 ft (164.223 m) above mean sea level.

AVERAGE DISCHARGE.--27 years, 682 ft³/s (19.31 m³/s), 12.90 in/yr (328 mm/yr), 494,100 acre-ft/yr (609 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 20,500 ft³/s (581 m³/s) Feb. 23 (gage height, 19.43 ft or 5.922 m); minimum, 90 ft³/s (2.55 m³/s) Aug. 13 (gage height, 2.98 ft or 0.908 m).

Period of record: Maximum discharge, 55,800 ft³/s (1,580 m³/s) June 30, 1957 (gage height, 27.15 ft or 8.275 m); minimum discharge, 20 ft³/s (0.57 m³/s) Sept. 19, 1954; minimum gage height, 1.89 ft (0.576 m) Sept. 15, 1956.

Flood of August 1915 reached a stage of about 29.4 ft (8.96 m), from floodmark, 1.0 mi (1.6 km) downstream, adjusted to gage site by comparison with recorded flood 5.5 ft (1.68 m) lower (discharge, 70,500 ft³/s or 2,000 m³/s, from rating curve extended above 37,000 ft³/s or 1,050 m³/s).

REMARKS.--Records good. Records of chemical analyses are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	393	153	214	598	5530	1090	1360	1260	303	133	144	542
2	290	152	222	705	3000	946	1090	1040	298	128	140	366
3	237	156	221	689	1940	841	942	936	276	126	201	273
4	210	486	217	742	1310	766	822	870	259	126	211	213
5	190	1140	212	615	1070	719	750	810	249	120	151	202
6	181	804	220	524	976	678	672	1160	237	286	135	209
7	174	556	241	467	830	816	615	5730	223	418	128	323
8	163	433	254	580	733	960	596	5540	213	287	114	233
9	160	361	256	968	681	768	546	3630	209	275	106	177
10	155	371	250	13500	623	744	516	1710	216	183	103	151
11	149	795	245	12800	553	786	474	1290	212	157	100	153
12	148	889	250	2830	539	7010	447	2400	210	145	96	170
13	151	711	244	1400	505	6110	430	1420	208	146	95	165
14	184	547	236	1010	473	2420	428	1070	206	141	96	163
15	294	450	237	843	457	1840	428	924	205	129	100	155
16	288	383	231	737	448	1690	418	810	203	123	182	140
17	262	341	226	644	469	1540	412	720	202	116	167	135
18	224	315	216	587	481	1320	416	654	201	110	142	132
19	197	292	213	552	456	1320	517	594	188	133	160	636
20	179	273	209	508	421	1220	559	540	173	231	174	1110
21	170	252	204	464	399	1010	486	504	163	166	160	754
22	163	235	199	408	4070	1040	439	464	158	364	130	516
23	155	228	197	391	18600	1040	686	425	163	242	112	378
24	152	228	194	374	10900	918	10500	390	158	236	104	302
25	150	218	190	382	3100	822	9560	375	153	648	97	249
26	151	207	184	368	2180	726	4660	395	156	471	995	212
27	155	197	182	354	1650	1090	2020	385	208	299	1140	188
28	155	194	180	339	1300	5550	1500	344	171	225	630	169
29	158	189	190	348	---	10400	1290	344	148	319	456	161
30	158	200	199	640	---	3710	1580	334	138	253	1670	157
31	153	---	290	5070	---	1910	---	303	---	167	889	---
TOTAL	5949	11756	6823	51237	63694	61800	45159	37371	6107	6853	9128	8734
MEAN	192	392	220	1653	2275	1994	1505	1206	204	221	294	291
MAX	393	1140	290	13500	18600	10400	10500	5730	303	648	1670	1110
MIN	148	152	180	339	399	678	412	303	138	110	95	132
CFSM	.27	.55	.31	2.30	3.17	2.78	2.10	1.68	.28	.31	.41	.41
IN.	.31	.61	.35	2.65	3.30	3.20	2.34	1.94	.32	.36	.47	.45
AC-FT	11800	23320	13530	101600	126300	122600	89570	74130	12110	13590	18110	17320

CAL YR 1974 TOTAL 293436 MEAN 804 MAX 14200 MIN 79 CFSM 1.12 IN 15.20 AC-FT 582000
WTR YR 1975 TOTAL 314611 MEAN 862 MAX 18600 MIN 95 CFSM 1.20 IN 16.30 AC-FT 624000

PEAK DISCHARGE (BASE, 8,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-10	1445	19.39	20,400	3-29	0645	15.41	11,100
2-1	0215	13.04	8,250	4-24	1130	17.18	14,400
2-23	0700	19.43	20,500	5-8	1215	13.38	8,630
3-12	1145	13.21	8,440				

MERAMEC RIVER BASIN

07018500 Big River at Byrnesville, Mo.

LOCATION.--Lat 38°21'45", long 90°39'05", in SE¼ sec.12, T.42 N., R.3 E., Jefferson County, on right bank on downstream side of pier of highway bridge at Byrnesville, 4.0 mi (6.4 km) upstream from Heads Creek, and at mile 14.1 (22.7 km).

DRAINAGE AREA.--917 mi^2 (2,375 km^2).

PERIOD OF RECORD.--October 1921 to current year. Prior to June 1922 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 433.69 ft (132.189 m) above mean sea level. Prior to Mar. 9, 1940, nonrecording gage at present site and datum.

Auxiliary water-stage recorder 4.0 mi (6.4 km) downstream at datum 433.83 ft (132.231 m) above mean sea level. Prior to Dec. 9, 1969, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--54 years, 850 ft^3/s (24.07 m^3/s), 12.59 in/yr (320 mm/yr), 615,800 acre-ft/yr (759 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 20,300 ft^3/s (575 m^3/s) Feb. 24 (gage height, 21.22 ft or 6.468 m); minimum daily, 128 ft^3/s (3.62 m^3/s) Aug. 14, 15.

Period of record: Maximum discharge, 42,100 ft^3/s (1,190 m^3/s) July 1, 1957 (gage height, 26.41 ft or 8.050 m); minimum discharge, 25 ft^3/s (0.708 m^3/s) Aug. 30, 1936, minimum gage height, 1.50 ft (0.457 m) Aug 14, 1934.

Flood of Aug. 21, 1915, reached a stage of 30.2 ft (9.20 m) from floodmarks (discharge, 80,000 ft^3/s or 2,270 m^3/s, by slope-area measurement of peak flow).

REMARKS:--Records poor.

REVISIONS.--WSP 667: 1927. WSP 877: 1938. WSP 1007: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	540	179	234	339	7330	1830	2250	2000	371	162	207	915
2	440	177	241	640	5220	1560	1780	1420	365	154	175	589
3	329	181	245	792	3290	1350	1500	1170	352	149	255	432
4	269	219	250	779	2190	1200	1300	1030	333	144	228	351
5	236	611	247	832	1720	1100	1100	931	318	144	226	297
6	206	1290	244	704	1480	1030	704	1530	306	151	205	255
7	189	892	248	602	1300	1120	655	5650	288	170	178	241
8	175	650	257	562	1100	1360	620	8230	274	333	161	291
9	163	515	273	728	972	1300	604	7730	262	311	151	286
10	154	523	280	4950	864	1130	586	3610	258	243	143	242
11	148	647	283	11900	784	1190	566	2070	257	209	135	227
12	145	1010	275	15400	744	5480	552	2210	256	182	131	231
13	142	1070	274	4110	708	9000	540	2410	253	166	129	216
14	151	826	272	1900	660	5670	530	1590	243	156	128	209
15	163	656	269	1380	616	2880	520	1260	239	153	128	204
16	233	545	259	1130	596	2460	510	1070	234	147	132	200
17	295	468	254	976	612	2230	510	931	237	140	149	193
18	282	419	250	864	616	2000	550	818	230	135	235	186
19	252	382	244	788	612	1840	672	732	226	132	192	312
20	231	351	237	724	572	1820	716	663	220	134	179	610
21	209	323	231	656	530	1610	739	622	207	171	184	1200
22	199	298	226	588	2160	1390	648	565	198	185	196	779
23	191	280	221	530	8800	1470	873	515	203	225	182	545
24	185	269	218	494	18200	1340	6350	482	198	313	160	424
25	180	265	214	488	13300	1200	12600	463	187	245	144	361
26	172	266	206	473	3780	1080	11300	439	181	453	603	316
27	168	253	201	455	2770	1400	4130	443	176	417	1090	275
28	171	241	198	443	2200	3000	2260	451	186	304	1200	249
29	177	229	201	434	---	6000	1750	453	202	245	727	228
30	178	228	201	996	---	11000	2030	422	175	220	547	215
31	181	---	251	4370	---	4000	---	401	---	295	1810	---
TOTAL	6754	14263	7504	60027	83726	81040	59445	52311	7435	6588	10310	11079
MEAN	218	475	242	1936	2990	2614	1982	1687	248	213	333	369
MAX	540	1290	283	15400	18200	11000	12600	8230	371	453	1810	1200
MIN	142	177	198	339	530	1030	510	401	175	132	128	186
CFSM	.24	.52	.26	2.11	3.26	2.85	2.16	1.84	.27	.23	.36	.40
IN.	.27	.58	.30	2.44	3.40	3.29	2.41	2.12	.30	.27	.42	.45
AC-FT	13400	28290	14880	119100	166100	160700	117900	103800	14750	13070	20450	21980

CAL YR 1974 TOTAL 368548 MEAN 1010 MAX 14100 MIN 186 CFSM 1.10 IN 14.95 AC-FT 731000
WTR YR 1975 TOTAL 400482 MEAN 1097 MAX 18200 MIN 128 CFSM 1.20 IN 16.25 AC-FT 794400

PEAK DISCHARGE (BASE, 7,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-12	0445	20.01	16,600	3-30	*	17.79	11,600
2-1	2045	15.58	8,080	4-25	1545	18.77	13,500
2-24	1945	21.22	20,300	5-8	2200	16.50	9,200
3-13	1715	16.36	9,220				

*Unknown

07019000 Meramec River near Eureka, Mo.

LOCATION.--Lat 38°30'20", long 90°35'27", in SE¼ sec.32, T.44 N., R.4 E., St. Louis County, on right bank 44 ft (13 m) upstream from bridge on north access roadway of I-44, 2.0 mi (3.2 km) east of Eureka, 3.0 mi (4.8 km) downstream from Big River, and at mile 34.6 (55.7 km).

DRAINAGE AREA.--3,788 mi² (9,811 km²).

PERIOD OF RECORD.--August 1903 to July 1906, October 1921 to current year. Monthly discharge only for January, February, and March 1904, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 404.18 ft (123.194 m) above mean sea level. Prior to Jan. 17, 1933, nonrecording gage at site 200 ft (61 m) upstream at different datum. Jan. 17, 1933, to Sept. 22, 1937, nonrecording gage, and Sept. 23, 1937, to Sept. 30, 1971, water-stage recorder at present site at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--56 years, 3,068 ft³/s (86.89 m³/s), 11.00 in/yr (279 mm/yr), 2,223,000 acre-ft/yr (2.74 km³/yr).

EXTREMES.--Current year: Maximum discharge, 41,500 ft³/s (1,180 m³/s) Feb. 25 (gage height, 23.32 ft or 7.108 m); minimum, 588 ft³/s (16.7 m³/s) Aug. 15 (gage height, 2.21 ft or 0.674 m).

Period of record: Maximum discharge 120,000 ft³/s (3,400 m³/s) June 11, 1945 (gage height, 38.94 ft or 11.869 m, present datum); minimum, 196 ft³/s (5.55 m³/s) Aug. 27, 31, Sept. 1, 1936.

Flood of Aug. 22, 1915, reached a stage of 42.2 ft (12.86 m), from floodmarks, present site and datum (discharge, 175,000 ft³/s or 4,960 m³/s, by slope-area measurement of peak flow).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 877: 1938(M). WSP 977: 1942. WSP 1007: Drainage area. WSP 1281: 1924-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1550	1150	1020	1900	20500	9520	15300	6780	1540	858	816	3140
2	1600	1110	1010	3250	24600	8560	8660	6750	1500	818	744	2440
3	1600	1100	992	4640	26100	7490	6690	6890	1440	781	771	2000
4	1500	1160	972	3450	18100	6000	5520	5060	1400	748	852	1720
5	1390	1360	962	3130	9020	4990	4770	4270	1350	722	906	1510
6	1340	2970	944	3000	6980	4360	4230	3870	1300	743	879	1370
7	1300	4460	962	2560	5880	4840	3810	14200	1260	876	789	1290
8	1240	3550	1010	2270	5270	5100	3480	24400	1210	961	718	1330
9	1210	2620	1050	2160	4490	5770	3260	30400	1170	982	676	1300
10	1200	2230	1180	11800	3890	4920	3100	30500	1150	876	650	1200
11	1190	2910	1360	22500	3500	4250	2920	14200	1130	803	627	1160
12	1190	3640	1360	31500	3240	14400	2740	6740	1120	743	611	1220
13	1180	6230	1300	32500	3030	22900	2580	7000	1110	708	603	1340
14	1260	5190	1300	28800	2850	25400	2470	5590	1090	682	603	1920
15	1310	3520	1540	9600	2700	24100	2410	4460	1100	670	595	1640
16	1330	2750	1500	5420	2600	17000	2340	3780	1070	656	611	1390
17	1510	2270	1350	4440	2820	9220	2270	3320	1060	642	642	1270
18	1640	1960	1260	3850	2830	8550	2260	2980	1060	665	798	1180
19	1630	1750	1200	3450	3290	8060	2490	2700	1050	660	1700	1530
20	1570	1590	1150	3120	3400	7240	2550	2470	1040	650	2000	2380
21	1510	1460	1110	2860	2920	6820	2670	2350	1010	667	1430	3560
22	1460	1360	1070	2630	4670	5970	2560	2200	972	742	1170	3540
23	1420	1290	1040	2420	18800	5290	3580	2060	951	834	1020	2600
24	1400	1220	1030	2270	29800	4960	11300	1940	956	1090	913	2030
25	1380	1160	1000	2220	39900	4440	27700	1990	941	1300	836	1720
26	1320	1120	972	2140	37000	4020	37300	1930	1040	1200	1390	1510
27	1290	1090	953	2050	19900	4430	36700	1800	1020	1230	3990	1350
28	1250	1050	934	2040	10700	9370	34100	1770	979	1070	5400	1230
29	1230	1010	934	2090	---	18200	15300	2230	987	944	3620	1140
30	1220	1010	934	2550	---	26300	7480	1820	918	870	3370	1080
31	1180	---	1180	12500	---	25400	---	1640	---	897	3960	---
TOTAL	42400	65290	34579	219110	318780	317870	262540	208090	33924	26088	43690	52090
MEAN	1368	2176	1115	7068	11390	10250	8751	6713	1131	842	1409	1736
MAX	1640	6230	1540	32500	39900	26300	37300	30500	1540	1300	5400	3560
MIN	1180	1010	934	1900	2600	4020	2260	1640	918	642	595	1080
CFSM	.36	.57	.29	1.87	3.01	2.71	2.31	1.77	.30	.22	.37	.46
IN.	.42	.64	.34	2.15	3.13	3.12	2.58	2.04	.33	.26	.43	.51
AC-FT	84100	129500	68590	434600	632300	630500	520700	412700	67290	51750	86660	103300

CAL YR 1974 TOTAL 1442684 MEAN 3953 MAX 29200 MIN 580 CFSM 1.04 IN 14.17 AC-FT 2862000
WTR YR 1975 TOTAL 1624451 MEAN 4451 MAX 39900 MIN 595 CFSM 1.18 IN 15.95 AC-FT 3222000

PEAK DISCHARGE (BASE, 17,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-13	0115	20.69	35,000	3-30	2245	18.04	28,700
2-3	1530	17.09	26,600	4-27	0015	22.26	38,800
2-25	1845	23.32	41,500	5-9	1845	19.31	31,600
3-14	0830	16.88	26,100				

MISSISSIPPI RIVER MAIN STEM

07020500 Mississippi River at Chester, Ill.

LOCATION.--Lat 37°54'10", long 89°51'10", in SW¼ sec.24, T.7 S., R.7 W., third principal meridian, Randolph County, on downstream side of left pier of main truss of highway bridge at Chester, 8.1 mi (13.0 km) downstream from Kaskaskia River, and at mile 109.9 (176.8 km) above Ohio River.

DRAINAGE AREA.--712,600 mi² (1,846,000 km²), approximately.

PERIOD OF RECORD.--Discharge: October 1927 to current year in reports of Geological Survey. Monthly discharge only for some periods, published in WSP 1311. Since August 1873, results of discharge measurements in reports of Mississippi River Commission.

Gage heights: July 1942 to current year in reports of Geological Survey. Since May 1891, in reports of Mississippi River Commission and National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 341.05 ft (103.952 m) above mean sea level. Prior to February 1, 1962, nonrecording gage 0.4 mi (0.6 km) downstream at present datum.

AVERAGE DISCHARGE.--48 years, 183,600 ft³/s (5,200 m³/s), 133,000,000 acre-ft/yr (164 km³/yr).

EXTREMES.--Current year: Maximum discharge, 544,000 ft³/s (15,400 m³/s) Apr. 28 (gage height, 31.39 ft or 9.568 m); minimum discharge, 84,700 ft³/s (2,400 m³/s) Oct. 8; minimum gage height, 4.17 ft (1.271 m) Nov. 1.

Period of record: Maximum discharge determined, 886,000 ft³/s (25,100 m³/s) July 3, 1947, Apr. 30, 1973 (discharge, including unmeasured overflow, was greater May 24, 1943); maximum gage height, 43.32 ft (13.204 m) Apr. 30, 1973; minimum daily discharge, 30,000 ft³/s (850 m³/s) Dec. 12, 1937; minimum gage height, -4.10 ft (-1.250 m) Jan. 2, 1964.

Flood of June 30, 1844, reached a stage of 39.8 ft (12.13 m) and a discharge of 1,350,000 ft³/s (38,200 m³/s), computed by Corps of Engineers.

REMARKS.--Records excellent. Natural flow of stream affected by many reservoirs and navigation dams in upper Mississippi River basin and by many reservoirs and diversions for irrigation in Missouri River basin.

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.36	4.19	8.03	6.98	16.43	19.52	27.82	29.19	18.02	22.60	9.62	15.32
2	5.26	5.07	7.80	7.36	20.37	18.61	27.81	27.60	18.85	21.84	9.61	14.59
3	5.56	6.24	7.65	9.02	20.11	18.27	26.90	26.31	20.35	21.01	9.55	14.09
4	5.62	8.69	7.53	10.37	19.42	17.92*	25.94	25.89	20.33	20.04	8.30	12.82
5	5.39	13.43	6.88	9.46	19.41	17.61	24.85	25.45	19.51	19.60	7.47	12.59
6	5.16	16.85	6.16	9.09	16.18	16.47	23.97	24.88	18.87	19.50	7.23	12.32
7	4.73	18.00	5.45	8.71	15.52	15.96	23.19	24.90	18.94	20.53	7.41	12.20
8	4.42	17.41	5.53	8.05	14.76	16.58	22.22	25.16	18.32	19.70	8.37	12.24
9	4.01	16.00	7.73	8.84	14.21	17.80	21.10	27.58	17.64	19.09	8.52	12.03
10	5.54	15.50	10.48	8.23	12.78	18.17	19.98	28.70	16.96	18.96	8.39	11.76
11	5.19	15.16	10.26	13.41	12.01	17.41	19.29	28.86	16.26	19.12	7.16	10.78
12	4.76	15.70	9.37	15.75	11.78	17.23	18.94	28.87	15.56	18.51	5.90	10.14
13	5.45	15.99	8.98	15.01	11.46	18.24	18.56	28.41	15.57	17.82	6.34	9.41
14	5.22	15.96	8.36	14.77	10.00	18.30	18.48	27.87	16.15	17.19	6.68	10.97
15	5.72	15.83	8.62	13.80	10.44	18.19	18.65	27.30	17.61	16.94	7.02	13.14
16	5.02	15.50	9.93	12.70	9.69	17.57	18.49	26.70	18.66	16.69	8.17	12.50
17	6.30	14.68	10.43	11.49	8.40	17.01	18.43	26.10	18.19	16.18	8.73	11.63
18	7.28	13.38	10.11	10.81	9.22	16.31	18.48	25.54	17.84	15.77	8.24	11.51
19	6.03	12.30	10.20	10.60	12.22	17.46	18.65	24.99	18.65	15.25	7.78	11.56
20	6.85	11.03	10.33	10.81	13.79	18.81	19.10	24.45	19.63	14.61	8.13	12.58
21	6.15	10.54	9.56	9.65	14.17	19.48	19.75	23.87	19.75	14.31	7.55	14.81
22	5.60	9.94	8.62	8.94	14.06	19.76	20.29	23.35	19.78	13.78	7.64	13.87
23	5.24	9.48	8.01	8.86	18.55	20.76	20.73	23.12	19.96	12.90	7.19	12.48
24	4.68	9.28	7.85	9.00	22.94	21.44	21.93	22.59	20.23	12.45	7.90	11.21
25	4.29	9.47	7.41	9.53	24.02	21.80	25.21	22.16	20.20	12.11	8.25	10.22
26	4.96	8.77	6.57	10.65	22.78	21.76	28.01	21.78	20.57	12.17	8.62	9.77
27	5.13	7.63	6.36	11.33	21.40	21.62	30.05	20.81	20.93	11.97	12.30	9.02
28	4.95	7.99	6.20	11.52	20.28	22.30	31.08	20.01	21.46	11.12	12.68	8.37
29	4.73	8.10	5.89	11.54	---	24.54	31.22	19.65	22.31	10.43	13.30	8.20
30	4.38	7.98	6.20	10.77	---	26.28	30.44	19.12	22.78	9.38	14.92	8.33
31	4.74	---	6.77	11.95	---	27.30	---	18.16	---	9.12	15.30	---
MAX	7.28	18.00	10.48	15.75	24.02	27.30	31.22	29.19	22.78	22.60	15.30	15.32
MIN	4.29	4.18	5.45	6.98	8.40	15.96	18.43	18.16	15.56	9.12	5.90	8.20

MISSISSIPPI RIVER MAIN STEM

07020500 Mississippi River at Chester, Ill.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95000	86500	124000	117000	252000	290000	440000	483000	247000	324000	137000	210000
2	96000	95800	121000	124000	310000	276000	436000	447000	264000	310000	130000	198000
3	98400	106000	119000	142000	295000	269000	418000	420000	287000	295000	136000	186000
4	97000	142000	117000	152000	267000	265000	396000	410000	284000	288000	124000	176000
5	95100	192000	107000	144000	247000	256000	374000	397000	270000	272000	110000	169000
6	93100	240000	103000	140000	233000	238000	357000	384000	263000	277000	114000	169000
7	87600	251000	98000	135000	224000	232000	340000	385000	262000	286000	120000	166000
8	85400	241000	101000	131000	212000	244000	320000	398000	251000	273000	127000	167000
9	88700	225000	127000	137000	202000	261000	298000	444000	241000	264000	128000	164000
10	94500	212000	152000	143000	183000	263000	279000	462000	230000	264000	126000	160000
11	90700	210000	146000	201000	174000	247000	269000	464000	219000	264000	113000	149000
12	89900	219000	140000	228000	171000	251000	263000	458000	210000	254000	104000	141000
13	94200	222000	135000	220000	168000	265000	257000	448000	212000	243000	108000	136000
14	93800	220000	130000	209000	161000	265000	257000	436000	226000	233000	111000	162000
15	98500	216000	133000	195000	157000	260000	259000	423000	249000	230000	116000	183000
16	99000	209000	147000	180000	148000	249000	257000	410000	262000	226000	127000	174000
17	105000	195000	150000	167000	137000	239000	256000	397000	254000	219000	130000	165000
18	112000	178000	148000	160000	153000	231000	257000	385000	252000	213000	123000	160000
19	107000	163000	149000	160000	187000	251000	260000	373000	269000	205000	121000	161000
20	105000	151000	149000	161000	205000	274000	269000	362000	281000	197000	123000	177000
21	99700	146000	140000	146000	206000	282000	280000	349000	282000	192000	118000	198000
22	95400	142000	129000	140000	212000	291000	292000	340000	283000	184000	117000	181000
23	92300	138000	124000	139000	290000	307000	300000	332000	286000	173000	116000	162000
24	88300	137000	123000	140000	363000	318000	337000	322000	289000	168000	123000	148000
25	86200	139000	118000	147000	375000	323000	404000	315000	288000	166000	123000	138000
26	91800	132000	111000	160000	347000	321000	467000	305000	294000	166000	137000	133000
27	92400	122000	109000	166000	323000	320000	513000	288000	300000	162000	173000	126000
28	91700	124000	108000	168000	303000	341000	539000	275000	311000	153000	177000	121000
29	89100	126000	106000	166000	---	382000	536000	269000	324000	148000	187000	121000
30	87900	124000	111000	159000	---	412000	514000	259000	330000	134000	210000	122000
31	89300	---	115000	184000	---	433000	---	246000	---	133000	213000	---
TOTAL	2931600	5104300	3890000	4961000	6505000	8856000	10444000	11686000	8020000	6908000	4138000	4822000
MEAN	94570	170100	125500	160000	232300	285700	348100	377000	267300	222800	133500	160700
MAX	112000	251000	152000	228000	375000	433000	539000	483000	330000	324000	213000	210000
MIN	85400	86500	98000	117000	137000	231000	256000	246000	210000	133000	104000	121000
AC-FT	5815000	10120000	7716000	9840000	12900000	17570000	20720000	23180000	15910000	13700000	8208000	9564000

CAL YR 1974 TOTAL 91077200 MEAN 249500 MAX 534000 MIN 82400 AC-FT 180700000
WTR YR 1975 TOTAL 78265900 MEAN 214400 MAX 539000 MIN 85400 AC-FT 155200000

Note.--Daily discharge computed from daily mean gage height.

HEADWATER DIVERSION CHANNEL BASIN

07021000 Castor River at Zalma, Mo.

LOCATION.--Lat 37°08'48", long 90°04'32", in SE¼ sec.29, T.29 N., R.9 E., Bollinger County, on downstream side of left bridge pier on State Highway 51 in Zalma, and 2.5 mi (4.0 km) downstream from Perkins Creek.

DRAINAGE AREA.--423 mi² (1,096 km²).

PERIOD OF RECORD.--January 1920 to current year Prior to October 1921 monthly discharge only published in WSP 1931.

GAGE.--Water-stage recorder. Datum of gage is 350.38 ft (106.796 m) above mean sea level. Prior to June 9, 1953, nonrecording gage. Prior to Oct. 1, 1925, at site 500 ft (152 m) upstream at datum 49.82 ft (15.185 m) lower, Oct. 1, 1925 to Nov. 12, 1930, at site 500 ft (152 m) upstream at datum 0.18 ft (0.055 m) higher than present gage, Nov. 13, 1930 to June 8, 1953, at present site and datum. Since Dec. 18, 1949, auxiliary nonrecording gage, 6 mi (9.7 km) downstream.

AVERAGE DISCHARGE.--55 years, 512 ft³/s (14.5 m³/s), 16.44 in/yr (418 mm/yr), 370,900 acre-ft/yr (457 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 16,000 ft³/s (453 m³/s) March 29 (gage height, 24.61 ft or 7.501 m); minimum observed, 78 ft³/s (2.21 m³/s) Aug. 13, 14 (gage height, 1.38 ft or 0.421 m).

Period of record: Maximum discharge, 40,400 ft³/s (1,144 m³/s) Jan. 14, 1937 (gage height, 27.67 ft or 8.434 m), from rating curve extended above 25,000 ft³/s (708 m³/s); maximum gage height, 28.20 ft (8.595 m) Mar. 11, 1935; minimum discharge, 16 ft³/s (0.453 m³/s) Aug. 31, 1936 (gage height, 0.81 ft or 0.247 m).

Flood of August 1915 reached a stage of 28.0 ft (8.53 m), present datum, from floodmark by local residents.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1147: 1922-23(M). WSP 1281: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	162	324	640	2340	930	1340	2330	235	124	92	167
2	264	160	309	726	1980	728	1020	2190	232	118	91	165
3	238	372	294	1090	1500	610	815	1260	222	114	104	155
4	218	2440	282	1300	1210	543	820	947	209	111	130	144
5	203	5990	264	1050	1010	491	729	757	198	108	126	136
6	192	3700	257	852	898	448	590	878	193	202	118	142
7	181	1290	285	722	767	445	526	2340	187	1690	108	141
8	172	1130	297	656	674	453	481	2070	180	1030	100	132
9	165	836	280	748	602	514	448	3720	172	543	94	124
10	160	820	272	1400	535	430	414	2550	169	404	89	117
11	155	1110	280	4670	496	449	383	1470	173	320	85	162
12	150	1240	290	3530	470	870	357	1660	173	290	81	667
13	147	939	284	1650	429	2250	335	1400	170	249	79	414
14	148	749	270	1080	397	2070	325	979	165	210	78	301
15	171	618	269	983	371	1540	323	773	160	178	105	249
16	202	533	265	726	352	1380	308	650	158	162	133	219
17	213	450	257	614	347	1580	301	584	160	147	100	201
18	208	437	252	581	327	1930	295	516	167	136	200	188
19	200	399	252	541	309	3680	400	458	173	126	500	217
20	193	394	251	482	293	2710	453	408	165	122	228	379
21	186	342	243	439	280	1620	420	369	155	122	214	429
22	180	317	235	403	665	1320	391	338	147	119	197	371
23	176	294	233	371	4390	1060	388	313	144	114	177	317
24	172	377	306	349	7080	931	822	290	150	109	163	279
25	168	422	379	338	4080	771	3520	278	155	120	149	246
26	164	385	404	319	1760	655	6460	269	158	130	140	220
27	162	361	412	300	1220	774	3110	258	156	126	138	200
28	159	342	412	286	1040	4770	1340	241	152	117	176	184
29	161	335	440	262	---	12600	1150	230	143	108	186	170
30	166	326	501	238	---	8380	1010	236	132	101	173	160
31	165	---	533	437	---	3240	---	237	---	96	168	---
TOTAL	5739	27070	9632	27623	35822	60072	29274	30999	5153	7654	4522	6996
MEAN	185	902	311	891	1279	1938	976	1000	172	247	146	233
MAX	300	5990	533	4670	7080	12600	6460	3720	235	1690	500	667
MIN	147	160	233	238	280	414	295	230	132	96	78	117
CFSM	.44	2.13	.74	2.11	3.02	4.58	2.31	2.36	.41	.58	.35	.55
IN.	.50	2.38	.85	2.43	3.15	5.28	2.57	2.73	.45	.67	.40	.62
AC-FT	11380	53690	19110	54790	71050	119200	58060	61490	10220	15180	8970	13880

CAL YR 1974 TOTAL 229150 MEAN 628 MAX 5990 MIN 60 CFSM 1.48 IN 20.15 AC-FT 454500
WTR YR 1975 TOTAL 250556 MEAN 686 MAX 12600 MIN 78 CFSM 1.62 IN 22.03 AC-FT 497000

PEAK DISCHARGE (BASE, 8,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE
3-29	1700	24.61	16,000

07022000 Mississippi River at Thebes, Ill.

LOCATION.--Lat 37°13'00", long 89°27'30", in NW¼ sec.17, T.15 S., R.3 W., Alexander County, near center span on downstream side of railroad bridge at Thebes, 5.0 mi (8.0 km) downstream from Headwater Diversion Channel, and at mile 43.7 (70.3 km) above Ohio River.

DRAINAGE AREA.--717,200 mi² (1,858,000 km²), approximately.

PERIOD OF RECORD.--Discharge: October 1932 to current year. Monthly discharge only for some periods, published in WSP 1311. Prior to April 1941, published as "at Cape Girardeau, Mo.".

Gage heights: March 1933 to February 1938 and October 1939 to current year in reports of Geological Survey (prior to April 1941, published as "at Cape Girardeau, Mo."). Since November 1878, under name of "at Grays Point" in files of St. Louis District office of Corps of Engineers. January 1879 to May 1896, published as "at Grays Point" and since May 1896, published as "at Cape Girardeau" in reports of Mississippi River Commission. February 1891 to February 1894 and since 1904, published as "at Cape Girardeau" in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level. Mar. 17, 1933, to Dec. 21, 1934, nonrecording gage and Dec. 22, 1934, to Apr. 4, 1941, water-stage recorder, at site 8.2 mi (13.2 km) upstream at datum 4.65 ft (1.417 m) higher. Apr. 5, 1941, to Sept. 30, 1941, nonrecording gage at present site and datum and Oct. 1, 1941, to Oct. 11, 1943, at datum 0.07 ft (0.021 m) higher. Prior to Apr. 5, 1941, various auxiliary gages used. Since Oct. 1, 1943, former gage at Cape Girardeau used as auxiliary gage.

AVERAGE DISCHARGE.--43 years, 188,700 ft³/s (5,344 m³/s), 136,700,000 acre-ft/yr (169 km³/yr).

EXTREMES.--Current year: Maximum discharge, 562,000 ft³/s (15,900 m³/s) Apr. 28; maximum elevation, 336.15 ft (102.459 m) Apr. 2; minimum discharge, 88,300 ft³/s (2,500 m³/s) Oct. 8; minimum elevation, 308.05 ft (93.89 m) Oct. 26.

Period of record: Maximum discharge, 893,000 ft³/s (25,300 m³/s) May 27, 1943 (elevation, 340.33 ft or 103.733 m, present datum); maximum elevation, 343.43 ft (104.678 m) Apr. 30, 1973; minimum discharge, 23,400 ft³/s (663 m³/s) Dec. 13, 1937, at site then in use; minimum elevation, 301.67 ft (91.949 m) Jan. 2, 1964.

Flood of July 4, 1844, reached an elevation of 345.14 ft (105.199 m), present datum, at Grays Point, from floodmarks (discharge, 1,375,000 ft³/s or 38,900 m³/s, computed by Corps of Engineers).

REMARKS.--Records good. Natural flow of stream affected by many reservoirs and navigation dams in upper Mississippi River basin and by many reservoirs and diversions for irrigation in Missouri River basin. Records of chemical analyses are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 1341: 1844 (M).

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.70	8.56	12.40	12.27	19.55	27.42	35.82	35.41	22.45	26.16	13.77	19.33
2	9.58	8.25	12.41	12.67	23.99	26.84	36.13	34.43	22.50	25.45	14.00	19.13
3	9.57	9.18	12.16	13.76	26.13	26.23	35.91	33.37	23.40	25.07	14.24	18.45
4	9.65	11.01	11.89	15.50	25.44	25.79	35.29	32.46	24.26	24.39	14.11	17.82
5	9.64	15.87	11.66	16.08	24.32	25.48	34.54	32.04	23.94	23.65	12.79	17.22
6	9.42	19.42	11.02	15.54	23.46	24.83	33.76	31.58	23.26	23.59	12.21	14.98
7	9.27	21.93	10.65	15.12	22.81	23.96	33.00	31.61	23.01	24.65	11.79	16.66
8	8.68	21.95	10.28	14.57	22.32	23.55	32.34	31.51	22.89	24.63	12.23	16.33
9	8.46	21.35	10.57	14.43	21.70	24.13	31.40	32.45	22.14	23.60	12.80	16.23
10	8.88	20.37	12.95	14.73	21.11	24.88	30.17	33.57	21.65	23.13	12.80	15.99
11	9.47	19.57	15.03	16.55	20.02	24.58	28.99	33.92	21.14	23.07	12.62	15.57
12	9.09	19.62	14.72	20.49	19.44	24.13	28.02	34.08	20.44	22.93	11.43	15.27
13	8.97	20.18	14.19	21.88	19.06	24.95	27.11	33.71	20.06	22.29	10.58	14.44
14	9.38	20.17	13.72	21.80	18.70	25.43	26.16	33.13	20.22	21.71	11.17	13.79
15	9.39	20.16	13.35	21.26	18.10	25.92	25.40	32.29	21.17	21.17	11.53	15.81
16	9.79	19.87	13.61	20.60	17.47	26.39	24.56	31.43	22.32	20.87	11.87	17.05
17	9.86	19.30	14.77	19.52	16.44	26.66	23.69	30.58	22.64	20.56	12.89	16.36
18	10.46	18.40	14.93	18.47	15.44	26.62	23.20	29.77	22.12	20.14	13.21	15.73
19	11.14	17.35	14.82	17.62	16.23	27.14	23.21	29.18	22.18	19.72	12.57	15.53
20	10.80	16.26	14.88	17.17	18.47	28.09	23.13	28.55	23.19	19.45	12.41	16.37
21	10.55	15.23	14.77	16.90	19.65	29.01	23.52	28.31	23.60	18.97	12.42	17.46
22	10.04	14.66	14.01	15.65	19.71	29.38	23.97	27.78	23.73	18.46	12.03	18.56
23	9.51	14.13	13.07	14.92	22.49	29.85	24.64	27.33	23.72	17.83	11.83	17.48
24	9.13	13.87	12.69	14.77	27.21	30.42	25.31	26.92	23.91	17.12	11.77	16.25
25	8.68	13.70	12.65	14.93	29.71	30.71	27.98	26.42	23.98	16.77	12.35	15.16
26	8.35	13.66	12.04	15.49	30.09	30.84	30.47	26.02	24.09	16.60	12.50	14.44
27	9.05	12.96	11.43	16.54	29.31	30.73	32.50	25.33	24.39	16.53	14.15	14.00
28	8.97	12.07	11.19	16.93	28.24	31.43	34.58	24.46	24.66	16.04	16.62	13.29
29	8.64	12.28	11.17	17.00	---	33.21	35.82	24.00	25.24	15.45	16.90	12.79
30	8.64	12.51	11.09	16.69	---	34.43	35.61	23.74	25.94	14.92	18.10	12.77
31	8.46	---	11.63	16.47	---	35.18	---	23.10	---	13.80	19.27	---
MAX	11.14	21.95	15.03	21.88	30.09	35.18	36.13	35.41	25.94	26.16	19.27	19.33
MIN	8.35	8.25	10.28	12.27	15.44	23.55	23.13	23.10	20.06	13.80	10.58	12.77

NOTE: Add 300.00 ft to obtain elevation above mean sea level.

07022000 Mississippi River at Thebes, Ill.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99400	92400	130000	124000	222000	304000	453000	515000	261000	342000	142000	211000
2	98300	92100	129000	127000	286000	288000	454000	483000	267000	332000	143000	198000
3	98400	99800	127000	146000	308000	275000	444000	451000	285000	316000	146000	194000
4	98300	109000	125000	158000	289000	265000	425000	432000	297000	299000	139000	183000
5	97000	185000	121000	160000	269000	262000	404000	420000	289000	287000	127000	179000
6	95000	220000	115000	153000	253000	252000	385000	407000	276000	287000	122000	175000
7	93200	252000	111000	144000	240000	243000	368000	408000	272000	302000	121000	173000
8	89000	249000	108000	137000	229000	245000	349000	413000	265000	294000	127000	171000
9	89400	239000	115000	137000	218000	262000	327000	446000	252000	276000	131000	171000
10	93200	225000	141000	141000	204000	274000	309000	473000	242000	270000	131000	169000
11	95900	216000	157000	174000	189000	270000	294000	481000	231000	271000	127000	163000
12	93300	221000	150000	218000	182000	268000	285000	484000	220000	266000	117000	159000
13	94700	228000	144000	228000	179000	290000	276000	482000	217000	257000	114000	150000
14	96800	229000	138000	221000	173000	292000	270000	461000	224000	248000	119000	151000
15	98500	227000	136000	209000	166000	291000	267000	444000	241000	242000	121000	179000
16	101000	222000	142000	195000	159000	289000	263000	425000	259000	237000	126000	188000
17	103000	213000	153000	182000	147000	284000	258000	407000	263000	231000	134000	178000
18	109000	198000	154000	171000	142000	277000	258000	391000	258000	224000	134000	173000
19	112000	183000	153000	166000	162000	286000	264000	378000	264000	217000	128000	173000
20	109000	168000	154000	165000	193000	301000	269000	368000	281000	211000	128000	182000
21	108000	158000	150000	162000	204000	314000	281000	359000	289000	204000	127000	201000
22	104000	151000	141000	148000	212000	317000	295000	349000	292000	197000	125000	206000
23	101000	146000	133000	143000	274000	326000	311000	343000	295000	186000	123000	188000
24	97700	144000	131000	142000	355000	333000	335000	334000	301000	179000	124000	171000
25	94600	143000	130000	145000	390000	339000	395000	326000	301000	175000	130000	158000
26	93900	140000	123000	154000	380000	339000	449000	319000	304000	173000	132000	149000
27	97100	132000	118000	166000	350000	337000	495000	306000	310000	172000	158000	143000
28	96500	126000	117000	170000	323000	363000	530000	290000	318000	165000	179000	136000
29	95800	129000	115000	171000	---	402000	538000	283000	330000	159000	182000	131000
30	93200	131000	115000	160000	---	427000	536000	278000	341000	151000	200000	131000
31	92700	---	120000	173000	---	443000	---	268000	---	141000	212000	---
TOTAL	3038900	5268300	4096000	5090000	6698000	9458000	10787000	12224000	8245000	7311000	4269000	5134000
MEAN	98030	175600	132100	164200	239200	305100	359600	394300	274800	235800	137700	171100
MAX	112000	252000	157000	228000	390000	443000	538000	515000	341000	342000	212000	211000
MIN	89000	92100	108000	124000	142000	243000	258000	268000	217000	141000	114000	131000
AC-FT	6028000	10450000	8124000	10100000	13290000	18760000	21400000	24250000	16350000	14500000	8468000	10180000

CAL YR 1974 TOTAL 94988700 MEAN 260200 MAX 570000 MIN 89000 AC-FT 188400000
WTR YR 1975 TOTAL 81619200 MEAN 223600 MAX 538000 MIN 89000 AC-FT 161900000

NOTE.--Daily discharge computed from daily mean gage heights.

07035500 Barnes Creek near Fredericktown, Mo.

LOCATION.--Lat 37°34'20", long 90°23'00", in SW¼SE¼ sec.4, T.33 N., R.6 E., Madison County, on right downstream side of bridge on State Highway 72, 1.1 mi (1.8 km) upstream from mouth, and 5.3 mi (8.5 km) west of Fredericktown.

DRAINAGE AREA.--4.03 mi^2 (10.4 km^2).

PERIOD OF RECORD.--September 1955 to September 1975 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage 660 ft (201.2 m) from topographic map.

AVERAGE DISCHARGE.--20 years, 4.90 ft^3/s (0.139 m^3/s), 16.51 in/yr (419 mm/yr), 3,550 acre-ft/yr (4.38 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 1,290 ft^3/s (36.5 m^3/s) Aug. 17 (gage height, 6.29 ft or 1.917 m); minimum daily, 0.04 ft^3/s (0.001 m^3/s) July 26 to Aug. 1, Aug. 8-13.

Period of record: Maximum discharge, 5,550 ft^3/s (157 m^3/s) May 21, 1957 (gage height, 9.62 ft or 2.932 m), from rating curve extended above 800 ft^3/s (22.7 m^3/s) on basis of contracted opening measurement of peak flow; no flow for many days each year.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.73	.52	1.6	11	28	3.9	4.2	2.1	.60	.32	.04	5.0
2	.73	.70	1.5	12	21	3.2	3.3	1.7	.55	.32	1.8	3.5
3	.73	23	1.6	25	9.6	2.8	2.9	1.6	.50	.32	.23	3.0
4	.73	160	1.5	12	5.7	2.5	2.3	1.4	.47	.32	.15	7.0
5	.73	31	1.5	8.2	4.8	2.1	2.0	1.2	.47	.32	.09	14
6	.73	29	1.5	6.4	3.9	1.8	1.7	3.7	.47	9.1	.06	5.0
7	.73	31	1.8	4.6	3.1	2.6	1.6	5.4	.43	.65	.05	4.0
8	.73	28	1.7	20	2.7	2.2	2.7	32	.43	.45	.04	3.5
9	.69	27	1.5	14	2.3	2.1	2.4	14	.43	.33	.04	3.0
10	.67	31	1.5	118	2.1	2.6	1.2	5.0	.44	.24	.04	3.0
11	.61	31	1.6	25	2.0	12	.74	11	.48	.22	.04	8.2
12	.61	25	1.5	11	1.9	61	.67	18	.43	.21	.04	23
13	4.4	22	1.4	7.3	1.7	26	.63	5.8	.39	.20	.04	9.3
14	17	21	1.4	5.9	1.7	13	.66	3.3	.39	.18	.08	5.4
15	7.6	25	2.0	5.0	1.5	15	.56	2.4	.64	.18	.05	4.2
16	2.9	22	1.9	4.4	1.7	24	.53	1.9	.39	.18	.18	3.7
17	1.8	21	1.8	3.6	2.1	20	.50	1.7	.45	.18	86	4.0
18	1.5	16	1.8	3.8	2.0	13	.80	1.4	.39	.18	6.1	3.6
19	1.2	12	2.0	3.4	1.9	15	.67	1.2	.39	.18	1.7	46
20	.97	6.1	1.8	3.0	1.8	6.9	.45	.94	.38	.18	1.2	26
21	.89	4.4	1.7	2.5	1.6	4.3	.42	.80	.35	.17	1.0	11
22	.85	3.2	1.6	1.7	125	4.2	.35	.69	.35	.17	.90	6.8
23	.83	1.9	1.5	1.5	67	3.3	15	.62	.65	.14	.84	4.8
24	.79	2.2	12	1.6	27	3.1	38	.64	.43	.06	.80	3.3
25	.72	1.7	6.6	1.7	14	2.4	63	.74	.35	.06	25	2.5
26	.66	1.4	4.0	1.5	9.4	1.8	12	.62	.35	.04	18	1.9
27	.60	1.4	3.4	1.7	6.3	34	5.4	.53	.35	.04	6.4	1.5
28	.61	1.3	2.9	1.6	5.1	154	3.8	.54	.35	.04	2.7	1.2
29	.68	1.2	9.0	1.5	---	36	2.9	.68	.35	.04	6.0	.99
30	.62	1.5	8.1	3.7	---	16	2.4	.69	.32	.04	15	.83
31	.56	---	11	94	---	7.3	---	.75	---	.04	6.0	---
TOTAL	53.60	582.52	94.7	416.6	356.9	498.1	173.78	123.04	12.97	15.10	180.61	219.22
MEAN	1.73	19.4	3.05	13.4	12.7	16.1	5.79	3.97	.43	.49	5.83	7.31
MAX	17	160	12	118	125	154	63	32	.65	9.1	86	46
MIN	.56	.52	1.4	1.5	1.5	1.8	.35	.53	.32	.04	.04	.83
CFSM	.43	4.81	.76	3.33	3.15	4.00	1.44	.99	.11	.12	1.45	1.81
IN.	.49	5.38	.87	3.84	3.29	4.60	1.60	1.14	.12	.14	1.67	2.02
AC-FT	106	1160	188	826	708	988	345	244	26	30	358	435

CAL YR 1974 TOTAL 3863.21 MEAN 10.6 MAX 218 MIN .01 CFSM 2.63 IN 35.65 AC-FT 7660
WTR YR 1975 TOTAL 2727.14 MEAN 7.47 MAX 160 MIN .04 CFSM 1.85 IN 25.17 AC-FT 5410

PEAK DISCHARGE (BASE, 300 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	0330	4.76	620	3-28	0945	4.33	432
1-10	1000	4.58	548	8-17	1830	6.29	1,290
2-22	1800	4.03	352	8-25	1800	4.34	404

07037500 St. Francis River near Pattersen, Mo.

LOCATION.--Lat 37°11'40", long 90°30'12", in NE¼ sec.16, T.29 N., R.5 E., Wayne County, near left bank on downstream side of pier of bridge on State Highway 34, 1 mi (1.6 km) upstream from Clark Creek, and 3 mi (4.8 km) east of Patterson.

DRAINAGE AREA.--956 mi² (2,476 km²).

PERIOD OF RECORD.--October 1920 to current year. Prior to June 1921, monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 370.45 ft (112.913 m) above mean sea level. Prior to Oct. 1, 1938, nonrecording gage at site 50 ft (15 m) upstream at datum 2.00 ft (0.610 m) higher. Oct. 1, 1938 to Apr. 12, 1939, nonrecording gage and Apr. 13, 1939 to Sept. 5, 1956, water-stage recorder at site 50 ft (15 m) upstream at present datum. Sept. 6, 1956 to Sept. 26, 1958, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--55 years, 1,108 ft³/s (31.38 m³/s), 15.74 in/yr (400 mm/yr), 802,800 acre-ft/yr (990 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 41,200 ft³/s (1,170 m³/s) Mar. 29 (gage height, 23.95 ft or 7.300 m); minimum, 74 ft³/s (2.10 m³/s) Aug. 13 (gage height, 3.34 ft or 1.018 m).

Period of record: Maximum discharge, 79,200 ft³/s (2,240 m³/s) Mar. 11, 1935 (gage height, 30.70 ft or 9.357 m), from rating curve extended above 55,000 ft³/s (1,560 m³/s); maximum gage height, 31.0 ft or 9.949 m Apr. 14, 1945 (backwater from Wappapello Dam); minimum discharge, 8 ft³/s (0.23 m³/s) Aug. 28 to Sept. 1, 1936; minimum gage height, 1.32 ft (0.402 m) Aug. 16, 1941.

Maximum stage known, 33.8 ft or 10.302 m (present datum) in August 1915, from floodmarks (discharge, 100,000 ft³/s or 2,830 m³/s, from rating curve extended above 55,000 ft³/s or 1,560 m³/s).

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 732: 1922-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	632	182	385	1590	14100	2150	3130	3670	329	155	96	1140
2	456	277	370	2310	5520	1800	2550	2390	329	143	129	632
3	370	1360	370	2470	4120	1470	2080	1730	298	132	153	456
4	321	11500	355	3220	2950	1240	1730	1410	269	122	147	385
5	280	17400	355	2470	2470	1090	1470	1190	251	113	132	316
6	251	4500	385	1940	2150	1020	1240	1190	233	213	132	277
7	228	2570	483	1530	1870	1020	1140	3130	224	671	115	303
8	211	1870	520	1410	1410	1090	1040	4500	211	1020	107	298
9	211	1410	538	2550	1240	1140	965	7350	205	502	100	235
10	194	1350	557	7260	1040	1090	865	4120	205	342	92	203
11	180	3840	520	22300	965	1140	790	2630	207	267	85	242
12	163	3580	456	6870	915	3080	690	2710	196	222	81	342
13	153	2470	432	3220	840	9700	613	2950	184	192	98	277
14	165	1800	416	2390	770	5160	576	2010	176	169	120	316
15	224	1410	416	1940	710	3490	576	1530	201	155	149	290
16	416	1140	416	1590	690	3400	557	1240	211	141	132	249
17	557	965	432	1350	710	4300	557	1060	261	129	127	220
18	456	840	416	1240	730	4400	538	890	244	120	197	205
19	385	750	416	1160	750	4500	840	770	218	113	1470	277
20	342	671	416	1060	710	3760	1220	671	203	108	630	1030
21	303	594	416	940	652	2790	1020	594	190	106	370	1730
22	272	538	400	815	1400	2310	840	520	173	104	269	915
23	246	483	400	730	25000	2010	1020	448	161	211	218	652
24	228	538	448	652	20200	1730	6600	400	182	140	184	520
25	215	520	576	632	6150	1470	23600	385	272	108	163	432
26	203	483	730	613	3850	1240	12900	370	202	101	171	342
27	192	456	690	594	3130	1350	4300	355	222	110	1120	303
28	186	432	652	557	2950	14300	2870	329	192	145	1040	272
29	184	400	710	520	---	34800	2310	342	171	131	538	246
30	182	385	915	483	---	10500	2870	321	161	115	416	228
31	180	---	1190	4680	---	4400	---	326	---	104	2560	---
TOTAL	8586	63914	15781	81086	107992	132940	81497	51531	6661	6404	11341	13333
MEAN	277	2130	509	2616	3857	4288	2717	1662	222	207	366	444
MAX	632	17400	1190	22300	25000	34800	23600	7350	329	1020	2560	1730
MIN	153	182	355	483	652	1020	538	321	161	101	81	203
CFSM	.29	2.23	.53	2.74	4.03	4.49	2.84	1.74	.23	.22	.38	.46
IN.	.33	2.49	.61	3.16	4.20	5.17	3.17	2.01	.26	.25	.44	.52
AC-FT	17030	126800	31300	160800	214200	263700	161600	102200	13210	12700	22490	26450

CAL YR 1974 TOTAL 525632 MEAN 1440 MAX 17400 MIN 40 CFSM 1.51 IN 20.45 AC-FT 1043000
WTR YR 1975 TOTAL 581066 MEAN 1592 MAX 34800 MIN 81 CFSM 1.67 IN 22.61 AC-FT 1153000

PEAK DISCHARGE (BASE, 21,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-5	0200	21.22	29,200	3-29	0600	23.95	41,200
1-11	0930	20.50	26,700	4-25	1500	21.25	29,600
2-23	1930	22.70	35,200				

07037700 Clark Creek near Piedmont, Mo.

LOCATION.--Lat 37°11'09", long 90°37'47", in SE¼NE¼ sec.17, T.29 N., R.4 E., Wayne County, at downstream right abutment of bridge on State Highway 34, and 3.5 mi (5.6 km) northeast of Piedmont.

DRAINAGE AREA.--4.39 mi² (11.37 km²).

PERIOD OF RECORD.--October 1956 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 530 ft (161.5 m) from topographic map.

AVERAGE DISCHARGE.--19 years, 4.33 ft³/s (0.123 m³/s), 13.39 in/yr (340 mm/yr), 3,137 acre-ft/yr (3.87 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 810 ft³/s (22.9 m³/s) May 6 (gage height, 5.00 ft or 1.524 m); minimum discharge, 0.60 ft³/s (0.017 m³/s) Sept. 30; minimum gage height, 1.77 ft (0.539 m), Sept. 7-10.
Period of record: Maximum discharge, 1,400 ft³/s (39.6 m³/s) May 22, 1957 (gage height, 6.10 ft or 1.859 m) from rating curve extended above 360 ft³/s (10.2 m³/s) on basis of slope-area measurements at gage heights 5.45 ft (1.661 m) and 6.25 ft (1.905 m); maximum gage height, 6.25 ft (1.905 m) Sept. 22, 1965; minimum, 0.2 ft³/s (0.006 m³/s) Feb. 21, 1958 and Jan. 29, 30, 1963.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.7	1.1	3.4	9.2	4.4	4.6	18	1.4	.90	1.1	.90
2	.90	13	1.1	5.5	8.2	4.1	3.8	5.4	1.4	.90	1.7	.90
3	.90	3.8	1.1	6.2	6.2	3.8	3.1	2.8	1.3	.80	1.3	.80
4	.80	58	1.1	4.1	5.4	3.8	2.6	2.0	1.2	.80	1.2	.80
5	.80	8.2	1.1	3.4	6.2	3.8	2.1	1.7	1.4	.80	1.2	.80
6	.80	4.6	1.1	2.8	5.0	3.6	2.1	88	1.2	1.6	1.2	.80
7	.90	3.4	1.1	2.6	4.4	7.0	1.8	22	1.3	1.1	1.2	.80
8	.80	3.1	1.1	6.8	3.8	5.0	1.8	38	1.2	.90	1.1	.80
9	.80	2.6	1.1	5.0	3.6	5.0	1.7	37	1.6	1.1	1.1	.80
10	.70	12	1.2	93	3.4	5.0	1.6	25	1.4	1.1	.90	.80
11	.70	11	1.2	22	3.4	8.6	1.4	8.6	1.3	1.1	.90	24
12	.70	5.4	1.2	7.8	3.1	45	1.4	6.2	1.3	1.3	.80	3.6
13	.80	4.4	1.1	5.8	2.8	14	1.4	4.1	1.3	1.1	.80	1.7
14	1.4	3.8	1.1	5.0	2.8	14	1.3	3.4	1.2	.90	.80	1.4
15	1.6	3.1	1.2	4.4	2.6	12	1.2	3.1	2.0	.90	1.2	1.2
16	1.2	2.4	1.1	3.8	2.8	14	1.1	2.8	1.7	.90	1.1	.90
17	1.1	2.0	1.1	3.8	2.6	14	1.1	2.8	3.1	.90	1.3	.80
18	1.1	2.0	1.1	3.8	2.4	45	1.2	2.6	1.7	1.1	1.1	.80
19	1.2	1.8	.90	3.6	2.1	33	1.1	2.4	1.6	.90	.90	1.6
20	1.2	1.6	.80	3.4	2.0	12	.90	2.4	1.3	.90	.80	1.1
21	1.2	1.4	.80	2.8	1.8	11	.90	2.1	1.2	.90	.80	.90
22	1.2	1.3	.80	2.6	62	9.3	.80	2.0	1.1	.90	.80	.80
23	1.2	1.3	.90	2.6	104	5.8	1.1	1.8	2.4	1.3	.80	.80
24	1.2	2.0	1.3	2.6	26	5.8	1.6	1.8	1.4	1.3	.80	.80
25	1.2	1.6	1.2	2.6	8.6	5.0	34	1.8	1.3	1.1	.80	.80
26	1.2	1.4	1.2	2.4	6.6	4.4	4.6	1.7	1.2	.90	1.1	.80
27	1.2	1.3	1.2	2.4	5.8	37	2.8	1.6	1.1	.90	.80	.70
28	1.2	1.2	1.2	2.6	5.0	206	2.1	1.6	1.1	.90	.80	.70
29	1.6	1.1	3.4	2.4	---	70	1.8	1.7	1.1	.80	1.4	.70
30	1.6	1.1	2.8	2.1	---	15	17	1.6	.90	.80	1.9	.60
31	1.4	---	4.1	13	---	7.8	---	1.6	---	.90	.90	---
TOTAL	33.70	161.6	40.80	234.3	301.8	713.4	104.00	297.6	42.70	30.70	32.60	52.90
MEAN	1.09	5.39	1.32	7.56	10.8	23.0	3.47	9.60	1.42	.99	1.05	1.76
MAX	1.6	58	4.1	93	104	206	34	88	3.1	1.6	1.9	24
MIN	.70	1.1	.80	2.1	1.8	3.6	.80	1.6	.90	.80	.80	.60
CFSM	.25	1.23	.30	1.72	2.46	5.24	.79	2.19	.32	.23	.24	.40
IN.	.29	1.37	.35	1.98	2.56	6.04	.88	2.52	.36	.26	.28	.45
AC-FT	67	321	81	465	599	1420	206	590	85	61	65	105

CAL YR 1974 TOTAL 1686.10 MEAN 4.62 MAX 83 MIN .70 CFSM 1.05 IN 14.28 AC-FT 3340
WTR YR 1975 TOTAL 2046.10 MEAN 5.61 MAX 206 MIN .60 CFSM 1.28 IN 17.33 AC-FT 4060

PEAK DISCHARGE (BASE, 250 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	0415	3.45	266	5-6	1030	5.00	810
3-28	1615	4.84	750				

07039000 Wappapello Lake at Wappapello, Mo.

LOCATION.--Lat 36°55'42", long 90°17'04", in NW¼SE¼ sec.3, T.26 N., R.7 E., Wayne County, at intake tower at dam on St. Francis River, 0.8 mi (1.2 km) southwest of Wappapello, and at mile 309 (497 km).

DRAINAGE AREA.--1,310 mi² (3,390 km²), approximately.

PERIOD OF RECORD.--April 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 347.74 ft (105.991 m) above mean sea level. Prior to June 19, 1941, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents, 167,000 acre-ft (206 hm³) Mar. 31 (gage height, 22.06 ft or 6.724 m); minimum, 22,400 acre-ft (27.6 hm³) Jan. 29 (gage height, 4.47 ft or 1.362 m).

Period of record: Maximum contents, 729,800 acre-ft (900 hm³) Apr. 16, 1945 (gage height, 51.35 ft or 15.651 m); minimum, since initial filling to conservation pool level, 23,340 acre-ft (28.8 hm³) Mar. 1, 2, 3, 1970; minimum gage height, 4.20 ft (1.280 m) Sept. 26, 27, 1967.

REMARKS.--Lake is formed by earth-fill dam. Closure of channel at dam began July 10, 1940; river began to flow through outlet structure July 24, 1940. Stop logs placed in outlet structure and storage began Apr. 1, 1941; conservation pool level reached Apr. 20, 1941. Capacity at bottom of outlet tunnels (gage height, -9.0 ft or -2.743 m), 2,600 acre-ft (3.21 hm³); at conservation pool level (gage height, 7.0 ft or 2.134 m), 30,900 acre-ft (38.1 hm³); at spillway crest (gage height, 47.0 ft or 14.326 m), 613,200 acre-ft (756 hm³); at maximum pool level (gage height, 62.4 ft or 19.020 m), uncontrollable above spillway crest, 1,022,000 acre-ft (1.26 km³). Figures given herein represent total contents. Under normal operating conditions lake surface will not be drawn below conservation pool level, which is maintained for purposes of conservation and recreation. Storage above this level used for flood control. Contents computed from daily readings at 0800.

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (gage height, in feet, and contents, in acre-ft)

4.0	21,100	13.0	71,400
6.0	27,100	16.0	99,600
8.0	35,900	20.0	142,300
10.0	48,300	24.0	192,000

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
INSTANTANEOUS OBSERVATIONS AT 0800

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64400	63100	74700	25200	32500	104000	165000	97100	63800	62800	62800	65000
2	64000	63300	72600	25200	54000	97300	159000	96900	63900	62900	62800	66200
3	63600	63600	70300	25400	60700	89000	150000	96400	63900	63200	63200	66200
4	62900	67200	67800	26400	63900	80400	139000	94800	63600	63400	63000	65500
5	63000	89200	65600	27900	65000	72400	120000	91800	63300	63400	63100	64500
6	63300	115000	63600	28300	65200	64500	117000	88100	63800	63200	62700	63800
7	63700	121000	62700	28300	65100	57900	106000	85300	63800	63800	62600	63300
8	63100	122000	63100	27300	64200	53100	95900	84500	63700	63400	62700	63200
9	62800	122000	63800	26200	62900	48500	86100	88600	63400	63800	62900	63100
10	62900	121000	64200	25200	61400	44300	77500	98100	63400	63900	63100	63100
11	63100	120000	64100	35000	59700	41100	69800	101000	63400	63600	63100	63300
12	63200	120000	63500	63700	59100	38100	62100	102000	63400	63300	62600	65300
13	63200	121000	62800	68400	59400	38400	55300	103000	63100	63200	62700	65900
14	63100	121000	62700	67800	59500	52000	49000	103000	62800	63100	63400	64900
15	63400	120000	62600	65300	59400	56300	44900	102000	62700	63000	63400	63700
16	63300	118000	61100	61200	57000	57400	43100	99600	63400	63000	63500	63100
17	63000	115000	57700	56400	52700	58100	42900	95800	63600	63000	62800	63100
18	62900	112000	53800	51900	48000	59700	43200	91700	63800	63000	62500	63300
19	63000	108000	49700	47700	45000	66400	44600	87100	63500	63100	62700	63500
20	62800	105000	45700	43600	41700	68700	45200	82200	63200	63100	65300	64000
21	62700	101000	41700	39600	37500	69500	45500	77000	63200	63200	65300	63800
22	62600	96700	37900	36000	33900	69300	44900	72600	63200	63200	65000	64800
23	62800	92300	34100	33200	36900	67200	43700	69200	63100	63200	64400	64900
24	63100	89200	30700	30400	78000	63500	42400	66900	63000	63300	63800	64100
25	63500	87400	28400	27400	111000	60000	55800	65700	63000	64400	63500	63300
26	63700	85200	26400	25100	113000	56200	97400	65000	62900	64700	63500	63100
27	63700	83000	25500	23400	113000	51900	113000	64400	63000	64500	63700	63100
28	63300	81000	25500	22500	109000	51900	113000	63700	63000	64100	63500	63300
29	63100	78700	25400	22400	---	161000	108000	63600	63000	63700	64000	63400
30	63100	76500	25300	22700	---	162000	101000	63500	62900	63300	64000	63300
31	63100	---	25200	24200	---	167000	---	63400	---	63000	63500	---
(†)	12.04	13.56	5.40	5.00	16.97	22.06	16.18	12.07	12.01	12.02	12.08	12.06
(‡)	-1.06	+13.36	-51.32	-0.99	+85.11	+57.66	-65.56	-38.00	-0.51	+0.08	+0.52	-0.17
MAX	64400	122000	74700	68400	113000	167000	165000	103000	63900	64700	65300	66200
MIN	62600	63100	25200	22400	32500	38100	42400	63400	62700	62800	62500	63100

CAL YR 1974..........‡ -80.82
WTR YR 1975..........‡ -0.88

† Elevation, in feet, at end of month.
‡ Change in contents, in thousands of acre-feet.

07039500 St. Francis River at Wappapello, Mo.

LOCATION.--Lat 36°55'41", long 90°15'55", in NW¼SE¼ sec.2, T.26 N., R.7 E., Wayne County, on right bank at downstream side of highway bridge, 0.5 mi (0.8 km) southeast of Wappapello and 1.25 mi (2.0 km) downstream from Wappapello Dam.

DRAINAGE AREA.--1,311 mi² (2,929 km²).

PERIOD OF RECORD.--October 1940 to current year. Since January 1939 in reports of Mississippi River Commission. Gage-height records collected in this vicinity since April 1920 are contained in reports of the Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 325.15 ft (99.106 m) above mean sea level. Prior to Oct. 14, 1940, nonrecording gages in the vicinity at same datum.

AVERAGE DISCHARGE.--35 years, 1,559 ft³/s (44.2 m³/s), 1,129,000 acre-ft/yr (1.39 km³/yr).

EXTREMES.--Current year: Maximum daily discharge, 9,610 ft³/s (272 m³/s) Mar. 31 (gage height, 22.0 ft or 6.71 m); minimum daily discharge, 40 ft³/s (1.13 m³/s) on many days.

Period of record: Maximum discharge, 22,300 ft³/s (632 m³/s) Apr. 16, 1945 (gage height, 25.60 ft or 7.803 m); no flow July 20-24, 1940, June 2, 1952, and part of a few days in some years.

Maximum stage known since 1920, 30.7 ft (9.36 m) May 15, 1933 (discharge, 82,500 ft³/s or 2,340 m³/s, determined by Corps of Engineers).

Maximum discharge, 85,000 ft³/s or 2,410 m³/s (determined by Corps of Engineers) Aug. 1915 (stage unknown).

REMARKS.--Records good above 500 ft³/s (14.2 m³/s) and fair below. Discharge computed using gate openings and pool elevation at Wappapello Lake. Flow regulated by Wappapello Lake.

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS.--WSP 1211: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	910	400	1940	1620	3470	6850	9550	4150	590	40	220	860
2	900	400	1930	1920	3810	7010	9380	3660	590	40	220	1080
3	650	670	1920	2140	3460	6540	9240	3650	590	100	710	980
4	280	1980	1910	2420	3640	6010	8920	3640	500	220	950	910
5	220	2410	1780	2770	3840	5080	8500	3630	410	220	430	810
6	403	1520	760	2870	3850	4860	7930	3600	410	540	110	420
7	590	2050	220	2950	3850	4510	7490	3580	410	1150	40	220
8	500	2520	280	3620	3840	3970	6890	3580	410	750	40	220
9	220	2520	600	3860	3820	4010	6340	3620	400	750	160	220
10	220	2500	1160	4520	3800	3940	5630	3600	400	700	220	270
11	220	2690	1370	5840	1720	3790	5100	3700	400	490	220	440
12	340	2990	1110	6000	560	3440	4980	3710	400	400	100	940
13	400	2990	580	5770	1000	3610	4760	3710	280	340	40	1220
14	400	3000	730	5070	1200	3880	3450	3710	140	220	320	1090
15	570	2990	1960	5210	3380	4360	1320	3700	120	220	700	770
16	677	2970	2950	5630	4200	4380	480	3680	333	220	750	400
17	580	2950	2950	5020	4000	4560	360	3650	520	220	400	400
18	580	2930	2970	4270	2370	5120	530	3620	580	220	40	400
19	580	2910	2970	4200	2840	5790	880	3590	470	220	40	830
20	580	2970	2980	4050	3750	5840	1390	3550	220	220	460	1110
21	405	2980	2960	3460	3360	5540	1960	3230	220	220	920	1120
22	220	2970	2960	2990	2810	5470	2070	2390	220	220	760	1310
23	220	2440	2890	3000	3400	5630	2050	1730	220	220	530	1370
24	220	2010	2520	2930	5220	5110	2260	1020	220	220	220	1150
25	340	2010	2090	2810	6480	4500	3650	910	220	350	220	490
26	520	2000	1300	1980	6800	4440	5590	910	220	410	430	380
27	580	1980	580	1190	6760	4370	6810	700	220	410	750	380
28	520	2990	880	520	6850	4750	7550	590	220	410	750	460
29	400	1970	1030	350	---	6480	7780	580	220	380	750	530
30	400	1950	900	40	---	8770	6460	530	160	220	750	480
31	400	---	1340	1080	---	9610	---	400	---	220	670	---
TOTAL	14045	69650	52600	100100	104080	162140	149300	86400	10313	10500	12920	21260
MEAN	453	2322	1697	3229	3717	5230	4977	2787	344	339	417	709
MAX	910	3000	2980	6000	6850	9610	9550	4150	590	1150	950	1370
MIN	220	400	220	40	560	3440	360	400	120	40	40	220
AC-FT	27860	138200	104300	198500	206400	321600	296100	171400	20460	20830	25630	42170

CAL YR 1974 TOTAL 776284 MEAN 2127 MAX 6810 MIN 40 AC-FT 1540000
WTR YR 1975 TOTAL 793308 MEAN 2173 MAX 9610 MIN 40 AC-FT 1574000

ST. FRANCIS RIVER BASIN

07041000 Little River ditch 81 near Kennett, Mo.

LOCATION.--Lat 36°14'1[illegible], long 89°58'58", in NE¼ sec.4, T.18 N., R.10 E., Dunklin County, on downstream side of bridge on State Highway 84, and about 4 mi (6.4 km) east of Kennett.

DRAINAGE AREA.--111 mi² (287 km²).

PERIOD OF RECORD.--October 1926 to current year.

GAGE.--Nonrecording gage. Datum of gage is 241.00 ft (73.457 m) above mean sea level (Corps of Engineers bench mark). Prior to Oct. 19, 1966, at site 100 ft (30.5 m) upstream at present datum.

AVERAGE DISCHARGE.--49 years, 200 ft³/s (5.66 m³/s), 144,900 acre-ft/yr (179 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,030 ft³/s (85.8 m³/s) March 28 (gage height, 9.70 ft or 2.957 m); minimum, 46 ft³/s (1.30 m³/s) Oct. 13, 14, 21, 22, 23, 28 (gage height, 0.95 ft or 0.290 m).

Period of record: Maximum discharge, 3,090 ft³/s (87.5 m³/s) Apr. 23, 1973 (gage height, 9.83 ft or 2.996 m); maximum gage height, 15.1 ft (4.60 m), including some overflow from levee breaks on St. Francis River Apr. 21, 1927; minimum discharge observed, 8 ft³/s (0.277 m³/s) Sept. 1, 1943, Sept. 18, 1954; minimum, gage height, 0.87 ft (0.265 m) Sept. 13-15, 1968.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 877: 1938.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	60	80	155	108	194	2500	262	122	115	81	80
2	57	67	67	138	386	184	1840	194	122	94	90	71
3	56	52	62	505	300	174	1420	184	122	92	122	68
4	52	73	65	328	184	164	1010	174	122	90	535	71
5	50	115	65	415	216	155	688	174	122	87	535	115
6	49	93	63	342	174	146	475	174	115	86	275	227
7	50	62	67	314	138	146	386	415	122	130	164	130
8	49	56	65	314	130	146	357	216	115	386	122	115
9	49	54	71	300	115	146	505	174	115	205	115	92
10	49	80	68	915	108	155	445	155	122	138	108	83
11	48	268	66	1080	108	535	300	146	174	108	108	250
12	47	138	67	357	108	1350	288	184	174	108	100	915
13	46	92	66	194	100	1350	262	216	155	115	96	719
14	46	72	63	146	97	783	262	164	122	100	115	238
15	51	65	78	130	93	626	250	146	122	96	130	146
16	50	52	71	122	94	657	238	146	115	92	238	130
17	50	57	66	115	90	328	250	146	115	90	657	122
18	48	56	63	115	100	300	238	138	138	86	505	115
19	48	59	65	108	94	915	288	130	227	89	250	194
20	47	57	67	108	93	657	386	130	138	108	146	657
21	46	53	65	100	92	386	238	130	130	87	115	386
22	46	51	63	100	130	415	216	130	115	83	108	227
23	46	48	60	97	1760	362	205	130	115	82	99	164
24	47	97	108	97	1880	415	184	130	108	99	96	146
25	47	234	164	100	1080	357	357	130	108	130	97	130
26	47	130	100	97	595	216	475	130	100	93	93	122
27	47	90	90	93	300	194	288	130	100	83	86	108
28	46	81	99	90	238	2180	238	122	108	81	83	100
29	59	80	164	93	---	2830	216	122	100	78	80	99
30	54	205	138	81	---	2780	205	130	108	74	100	97
31	50	---	164	85	---	2680	---	122	---	73	93	---
TOTAL	1538	2701	2560	7234	8911	21926	15010	5074	3779	3370	5542	6117
MEAN	49.6	90.0	82.6	233	318	707	500	164	126	109	179	204
MAX	61	268	164	1080	1880	2830	2500	415	227	386	657	915
MIN	46	48	60	81	90	146	184	122	100	73	80	68
AC-FT	3050	5360	5080	14350	17670	43490	29770	10060	7500	6680	10990	12130

CAL YR 1974 TOTAL 61057 MEAN 167 MAX 1600 MIN 46 AC-FT 121100
WTR YR 1975 TOTAL 83762 MEAN 229 MAX 2830 MIN 46 AC-FT 166100

07042000 Little River ditch 1 near Kennett, Mo.

LOCATION.--Lat 36°14'09", long 89°58'53", in NE¼ sec.4, T.18 N., R.10 E., Dunklin County, on downstream side of bridge on State Highway 84, and 4 mi (6.4 km) east of Kennett.

DRAINAGE AREA.--235 mi² (608 km²).

PERIOD OF RECORD.--October 1926 to current year.

GAGE.--Nonrecording gage. Datum of gage is 241.00 ft (73.457 m) above mean sea level (Corps of Engineers bench mark). Prior to Oct. 20, 1966, at site 100 ft (30.5 m) upstream at present datum.

AVERAGE DISCHARGE.--49 years, 419 ft³/s (11.9 m³/s), 303,600 acre-ft/yr (374 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 7,160 ft³/s (203 m³/s) Mar. 30 (gage height, 13.85 ft or 4.221 m); minimum, 61 ft³/s (1.73 m³/s) Oct. 22 (gage height, 1.06 ft or 0.323 m).

Period of record: Maximum discharge, 7,900 ft³/s (224.7 m³/s) Apr. 23, 1973 (gage height, 14.55 ft or 4.435 m); maximum gage height, 16.80 ft (5.121 m) Jan. 25, 1937; minimum discharge, 8 ft³/s (0.227 m³/s) Sept. 13-18, 1932; minimum gage height observed, 0.71 ft (0.216 m) Sept. 15, 1956.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	115	103	412	155	510	6850	337	176	145	135	188
2	86	105	102	352	476	444	5080	382	176	135	135	155
3	76	78	102	685	864	412	4190	293	165	135	226	135
4	74	91	100	756	510	352	2660	265	155	135	1050	123
5	70	213	98	476	382	337	1530	252	165	135	1170	122
6	68	188	95	293	367	308	975	239	188	125	615	367
7	66	120	100	213	322	322	720	252	165	510	322	226
8	65	100	98	200	265	444	650	444	155	1410	293	176
9	65	91	100	188	239	382	685	352	145	828	239	145
10	65	111	98	1180	213	412	720	279	279	382	213	125
11	65	265	103	2360	213	1170	545	252	279	293	188	165
12	66	213	102	1280	213	2540	510	476	279	226	188	567
13	64	155	97	720	200	4050	412	412	239	265	165	1050
14	63	122	94	382	200	2180	412	476	188	188	165	510
15	70	105	102	308	200	1620	382	252	188	155	279	293
16	66	88	98	252	176	1410	352	252	176	135	536	265
17	64	88	98	239	188	1010	337	239	176	125	1530	213
18	64	89	95	213	213	864	337	239	322	125	1130	188
19	63	92	97	213	188	3240	545	213	476	125	792	176
20	62	92	102	213	176	2130	444	200	293	213	352	298
21	62	91	108	200	165	1090	337	200	226	155	279	975
22	61	86	102	188	213	720	279	200	165	226	226	545
23	62	85	97	176	3500	615	279	188	165	188	200	293
24	63	125	118	176	4890	828	252	176	165	155	176	265
25	62	367	265	176	3310	937	382	188	165	252	176	226
26	62	308	322	176	1830	545	685	226	155	145	176	200
27	62	200	226	165	1050	864	510	188	213	125	155	176
28	64	145	176	155	685	4470	412	188	200	122	155	165
29	68	120	226	155	---	6940	352	188	176	118	155	155
30	67	111	322	145	---	7120	322	200	165	123	155	155
31	68	---	322	155	---	7120	---	188	---	120	322	---
TOTAL	2091	4159	4268	12802	21403	55386	32946	8236	6180	7519	11898	4642
MEAN	67.5	139	138	413	764	1787	1098	266	206	243	384	288
MAX	108	367	322	2360	4890	7120	6850	476	476	1410	1530	1050
MIN	61	78	94	145	155	308	252	176	145	118	135	122
AC-FT	4150	8250	8470	25390	42450	109900	65350	16340	12260	14910	23600	17140

CAL YR 1974 TOTAL 114481 MEAN 314 MAX 3870 MIN 61 AC-FT 227100
WTR YR 1975 TOTAL 175530 MEAN 481 MAX 7120 MIN 61 AC-FT 348200

07042500 Little River ditch 251 near Lilbourn, Mo.

LOCATION.--Lat 36°33'20", long 89°40'12", SW¼SE¼ sec.8, T.22 N., R.13 E., New Madrid County, on right bank 150 ft (45.7 m) upstream from bridge on U.S. Highway 62, 3.7 mi (5.95 km) southwest of Lilbourn, and 4 mi (6.4 km) northwest of Marston.

DRAINAGE AREA.--235 mi² (609 km²).

PERIOD OF RECORD.--October 1945 to current year. Prior to January 1946 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 263.46 ft (80.303 m) above mean sea level (levels by Missouri State Highway Commission). Prior to Oct. 27, 1967, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--30 years, 327 ft³/s (9.26 m³/s), 18.90 in/yr (480 mm/yr), 236,900 acre-ft/yr (292 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,580 ft³/s (186 m³/s) Mar. 29 (gage height, 14.17 ft or 4.139 m); minimum, 89 ft³/s (2.52 m³/s) Oct. 31 (gage height, 2.04 ft or 0.622 m).

Period of record: Maximum discharge, 6,580 ft³/s (186 m³/s) Mar. 29, 1975 (gage height, 14.17 ft or 4.139 m); maximum gage height, 15.16 ft (4.621 m) Feb. 15, 1950; minimum discharge, 29 ft³/s (0.82 m³/s) Sept. 20, 1954; minimum gage height, 2.00 ft (0.610 m) Sept. 30, Oct. 2, 3, 4, 5, 6, 9, Nov. 11, 13, 21, 22, 1971.

Flood in June 1945 reached a stage of 15.6 ft (4.755 m) from floodmark (discharge, 3,200 ft³/s or 90 m³/s).

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	105	151	364	267	503	5050	476	238	187	[illegible]	177
2	124	140	147	281	608	446	2960	357	232	181	[illegible]	178
3	122	110	141	711	420	405	1340	343	233	177	638	166
4	121	189	139	426	368	378	952	331	231	173	849	162
5	120	174	137	312	365	364	764	318	236	170	637	177
6	119	165	139	293	342	355	623	382	235	826	387	171
7	116	138	143	271	301	413	552	656	270	1100	305	166
8	113	124	143	267	294	366	521	614	230	617	262	161
9	114	128	137	255	275	333	503	473	224	366	238	157
10	111	141	139	795	267	623	495	429	232	608	232	152
11	111	244	139	1090	270	923	440	385	239	268	231	180
12	111	157	133	600	262	2370	423	375	226	260	227	489
13	109	137	139	435	248	1880	403	371	218	236	215	450
14	109	131	139	366	244	1060	393	342	214	216	218	418
15	112	128	155	322	242	1120	381	324	221	210	240	294
16	109	126	145	288	250	932	368	313	209	201	827	254
17	107	124	139	267	299	721	376	302	622	193	948	235
18	107	124	137	269	253	1030	392	293	405	193	409	208
19	102	124	173	258	238	1860	476	283	249	185	334	454
20	103	120	153	235	233	1050	377	278	224	644	276	786
21	101	116	145	242	230	740	349	279	215	868	251	408
22	101	116	145	231	531	672	333	300	210	522	239	284
23	103	118	147	224	3800	600	335	255	209	360	228	246
24	103	269	196	224	3270	802	345	283	201	358	216	230
25	100	262	322	235	1620	629	571	372	195	334	211	217
26	99	187	242	222	901	493	714	270	192	271	201	205
27	105	173	218	213	702	561	565	276	258	245	195	197
28	104	161	218	209	600	4210	458	249	272	230	186	187
29	110	153	305	205	---	6490	425	315	230	214	183	182
30	103	151	269	189	---	6420	396	266	199	202	217	178
31	99	---	333	198	---	5950	---	248	---	198	184	---
TOTAL	3400	4537	5408	10497	17700	44699	22360	10728	7369	10492	10083	7655
MEAN	110	151	174	339	632	1442	745	346	246	338	325	255
MAX	132	269	333	1090	3800	6490	5050	656	622	1100	948	786
MIN	99	105	133	189	230	333	333	248	192	170	183	152
CFSM	.47	.64	.74	1.44	2.69	6.14	3.17	1.47	1.05	1.44	1.38	1.09
IN.	.54	.72	.86	1.66	2.80	7.08	3.54	1.70	1.17	1.66	1.60	1.21
AC-FT	6740	9000	10730	20820	35110	88660	44350	21280	14620	20810	20000	15180

CAL YR 1974 TOTAL 107811 MEAN 295 MAX 2300 MIN 99 CFSM 1.26 IN 17.07 AC-FT 213800
WTR YR 1975 TOTAL 154928 MEAN 424 MAX 6490 MIN 99 CFSM 1.80 IN 24.52 AC-FT 307300

07043000 Castor River at Aquilla, Mo.

LOCATION.--Lat 36°57'08", long 89°54'25", in NE¼SE¼ sec.25, T.27 N., R.10 E., Stoddard County, on downstream side of right pier of bridge on State Highway 25, 0.5 mi (0.[illegible] km) north of Aquilla, and 4 mi (6.4 km) north of Bloomfield.

DRAINAGE AREA.--175 mi^2 (453 km^2).

PERIOD OF RECORD.--October 1945 to current year. Prior to January 1946 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 317.11 ft (96.655 m) above mean sea level (levels by Missouri State Highway Commission). Prior to Apr. 11, 1948, nonrecording gage at site 50 ft (15.24 m) downstream at same datum, Apr. 12, 1948, to July 31, 1968, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--30 years, 168 ft^3/s (4.76 m^3/s), 13.04 in/yr (331 mm/yr), 121,700 acre-ft/yr (150 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 3,790 ft^3/s (107 m^3/s) Mar. 29 (gage height, 14.42 ft or 4.395 m); minimum, 4.8 ft^3/s (0.14 m^3/s) Sept. 4; minimum gage height, 4.57 ft (1.393 m) Oct. 11.

Period of record: Maximum discharge, 5,900 ft^3/s (167 m^3/s) Mar. 9, 1964 (gage height, 15.7 ft or 4.79 m, from floodmark); no flow Sept. 4-7, 1946, Sept. 22 to Oct. 4, Oct. 8-11, 1953, Sept. 18-20, 1955, Oct. 27 to Nov. 4, 1964.

Flood in June 1945 reached a stage of 14.2 ft (4.33 m), from floodmark.

REMARKS.--Records fair. Entire flow from headwaters of Castor River is diverted 22 mi (35.4 km) above station to Headwater diversion channel. See Castor River at Zalma for records of flow above diversion.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	8.1	40	223	360	566	1940	348	83	47	10	6.2
2	106	8.3	37	215	738	264	1780	269	81	37	11	5.8
3	76	9.9	35	493	680	162	1570	210	73	30	145	5.3
4	56	483	31	564	436	123	1310	169	63	26	402	5.6
5	40	460	28	388	259	107	819	144	114	22	449	7.4
6	29	415	24	211	182	98	341	367	155	345	502	12
7	15	267	103	122	134	137	228	813	138	846	469	9.4
8	13	147	354	87	99	159	182	776	112	955	336	17
9	10	85	335	75	78	135	156	785	85	947	199	17
10	6.4	68	189	305	68	167	141	626	74	830	120	13
11	5.4	172	104	840	59	436	130	395	148	528	78	34
12	5.7	227	82	880	56	1390	118	479	193	284	55	395
13	6.0	162	80	679	56	1520	109	687	135	168	40	586
14	8.3	97	69	321	56	1500	104	546	89	168	33	616
15	10	67	59	149	55	1470	100	311	67	77	39	504
16	8.4	53	53	80	60	1270	102	201	73	59	39	318
17	11	41	48	62	92	852	101	151	170	46	30	185
18	13	31	43	61	98	767	101	124	216	36	22	118
19	14	23	45	67	89	1190	190	106	171	30	18	108
20	15	18	50	68	76	1180	289	93	109	25	18	216
21	12	15	55	60	67	1020	235	85	72	22	23	277
22	10	14	69	48	610	611	174	78	54	13	25	220
23	8.9	13	70	40	1790	354	140	72	42	59	21	145
24	7.8	88	252	36	1900	363	122	72	46	28	16	95
25	6.5	180	438	34	1770	432	1020	78	82	111	13	67
26	6.4	184	381	33	1630	309	1330	77	181	158	12	49
27	7.0	129	218	32	1450	423	1300	98	88	94	10	37
28	7.7	87	130	31	1110	2450	1320	101	94	46	9.0	29
29	10	61	163	31	---	3460	1050	95	84	24	8.1	23
30	9.1	48	227	30	---	2600	579	90	63	16	7.6	19
31	8.4	---	210	102	---	2180	---	86	---	12	6.9	---
TOTAL	675.0	3481.3	4030	6367	14058	27695	17161	8532	3155	6069	3164.6	4099.7
MEAN	21.8	123	130	205	502	893	572	275	105	196	102	137
MAX	133	483	438	880	1900	3460	1940	813	216	955	502	616
MIN	5.4	8.1	24	30	55	98	100	72	42	12	6.9	5.3
CFSM	.12	.70	.74	1.17	2.87	5.10	3.27	1.57	.60	1.12	.58	.78
IN.	.14	.78	.86	1.35	2.99	5.89	3.65	1.81	.67	1.29	.67	.87
AC-FT	1340	7380	7990	12630	27880	54930	34040	16920	6260	12040	6280	8130

CAL YR 1974 TOTAL 55946.45 MEAN 153 MAX 1260 MIN .12 CFSM .87 IN 11.89 AC-FT 111000
WTR YR 1975 TOTAL 98689.60 MEAN 270 MAX 3460 MIN 5.3 CFSM 1.54 IN 20.98 AC-FT 195800

07043500 Little River ditch 1 near Morehouse, Mo.

LOCATION.--Lat 36°50'03", long 89°43'48", in SW¼SE¼ sec.2, T.25 N., R.12 E., Stoddard County, on downstream side of second pier right of left abutment of bridge on State Highway 114, 1.5 mi (2.4 km) downstream from Little River ditch 39, and 2 mi (3.2 km) west of Morehouse.

DRAINAGE AREA.--450 mi^2 (1,166 km^2).

PERIOD OF RECORD.--October 1945 to current year. Prior to January 1946 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 280.76 ft (85.576 m) above mean sea level. Prior to Nov. 17, 1949, June 11, 1951 to Feb. 22, 1962, nonrecording gage at same site and datum. Nov. 17, 1949, to June 10, 1951, nonrecording gage at site 50 ft (15.2 m) downstream at present datum.

AVERAGE DISCHARGE.--30 years, 528 ft^3/s (15.0 m^3/s), 15.94 in/yr (405 mm/yr), 382,500 acre-ft/yr (472 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 6,020 ft^3/s (170 m^3/s) March 30 (gage height, 17.95 ft or 5.471 m); minimum, 106 ft^3/s (3.00 m^3/s) Oct. 26 (gage height, 3.78 ft or 1.152 m).

Period of record: Maximum discharge, 8,250 ft^3/s (234 m^3/s) May 10, 1961 (gage height, 19.35 ft or 5.898 m); maximum gage height, 19.81 ft (6.038 m) Mar. 11, 1964; minimum discharge, 21 ft^3/s (0.59 m^3/s) Sept. 18, 1954 (gage height, 3.13 ft or 0.954 m).

Flood in June 1945 reached a stage of 19.85 ft (6.050 m) from floodmark (discharge, 5,830 ft^3/s or 165.1 m^3/s).

REMARKS.--Records fair. This Little River ditch 1 flows into Little River ditch 251 at point 35.3 mi (56.8 km) downstream, and is independent of the ditch for which records are published as Little River ditch 1 near Kennett.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	364	113	251	976	1520	1760	5550	967	190	240	167	161
2	312	111	233	827	2030	1210	4790	684	180	210	177	150
3	249	117	219	1540	1700	676	4250	513	170	200	615	144
4	199	1050	210	1730	1300	439	3260	384	160	190	2540	140
5	168	2180	202	1180	1040	371	2250	313	260	180	2400	154
6	149	1350	194	894	830	339	1530	538	755	1610	1880	614
7	136	876	210	634	626	392	884	2820	569	3720	1410	510
8	131	602	585	500	486	432	607	3210	311	3290	1110	214
9	125	394	780	437	397	384	507	2790	252	2710	767	174
10	122	304	639	1360	349	518	409	1850	246	2150	501	165
11	118	596	438	2950	318	1280	356	1130	269	1540	356	168
12	113	718	344	1920	299	3470	325	1200	464	1060	283	2090
13	111	591	317	1410	281	4240	299	1150	378	660	265	2800
14	113	424	297	1140	274	3090	288	1070	262	420	274	2170
15	127	390	280	741	264	2310	275	833	248	330	269	1660
16	129	245	271	484	261	2430	261	524	244	270	385	1350
17	124	219	254	377	326	2020	262	360	498	238	571	939
18	118	200	249	360	372	1910	267	292	599	216	317	529
19	117	184	284	406	335	3720	754	253	462	206	284	514
20	115	176	267	393	293	2890	858	236	318	315	235	1520
21	117	170	259	360	266	1800	596	210	240	1110	209	1380
22	118	163	258	324	1020	1510	433	200	200	899	201	928
23	115	164	263	299	4500	1190	341	180	180	468	197	643
24	113	459	852	286	5030	1240	315	170	170	300	184	450
25	111	885	1600	283	4720	986	2170	180	150	378	175	349
26	109	646	1100	268	3720	788	3790	170	724	503	170	290
27	111	515	853	253	2380	707	2870	180	946	401	165	251
28	115	391	649	244	1980	4290	2140	290	373	270	157	229
29	122	302	711	237	---	5830	1840	250	289	211	154	213
30	118	262	1100	226	---	6000	1420	220	260	186	154	198
31	117	---	886	428	---	5920	---	200	---	173	166	---
TOTAL	4406	14705	15055	23467	36917	64142	43897	23367	10367	24624	16738	21097
MEAN	142	490	486	757	1318	2069	1463	754	346	794	540	703
MAX	364	2180	1600	2950	5030	6000	5550	3210	946	3720	2540	2800
MIN	109	111	194	226	261	339	261	170	150	173	154	140
CFSM	.32	1.09	1.08	1.68	2.93	4.60	3.25	1.68	.77	1.76	1.20	1.56
IN.	.36	1.22	1.24	1.94	3.05	5.30	3.63	1.93	.86	2.04	1.38	1.74
AC-FT	8740	29170	29860	46550	73220	127200	87070	46350	20560	48840	33200	41850

CAL YR 1974 TOTAL 189381 MEAN 519 MAX 3450 MIN 87 CFSM 1.15 IN 15.66 AC-FT 375600
WTR YR 1975 TOTAL 298782 MEAN 819 MAX 6000 MIN 109 CFSM 1.82 IN 24.70 AC-FT 592600

07044000 Little River ditch 251 near Kennett, Mo.

LOCATION.--36°14'08", long 89°58'45", in NW¼ sec.3, T.18 N., R.10 E., Dunklin County, on downstream side of bridge on State Highway 84, and 4 mi (6.4 km) east of Kennett.

DRAINAGE AREA.--883 mi² (2,287 km²), includes that of Little River ditch 66.

PERIOD OF RECORD.--November 1926 to current year.

GAGE.--Nonrecording gage. Datum of gage is 241.00 ft (73.457 m) above mean sea level (Corps of Engineers bench mark). Prior to Oct. 20, 1966, at site 100 ft (30.5 m) upstream at present datum.

AVERAGE DISCHARGE.--48 years, 697 ft³/s (19.73 m³/s), 505,000 acre-ft/yr (623 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,580 ft³/s (186 m³/s) March 31 (gage height, 16.87 ft or 5.142 m); minimum, 62 ft³/s (1.76 m³/s) Oct. 28 (gage height, 1.56 ft or 0.475 m).
Period of record: Maximum discharge, 8,380 ft³/s (237 m³/s) Nov. 20, 1957 (gage height, 21.18 ft or 6.456 m); maximum gage height, 21.80 ft (6.644 m) Mar. 11, 1964; minimum discharge, 22 ft³/s (0.62 m³/s) Sept. 23, 1969 (gage height, 1.59 ft or 0.485 m).

REMARKS.--Records fair. Since Oct. 27, 1965 some base flow has been diverted into ditch 66. Little River ditch 66 diverts water 7.6 mi (12.23 km) upstream. Ditches 66 and 66-A made one ditch in vicinity of gage on May 12, 1965. Prior to April 1951, above discharges of about 4,000 ft³/s (113.3 m³/s), a spillway 6.3 mi (10.1 km) upstream diverted water from ditches 66, 66-A and 251 to Little River ditch 1. On Mar. 11, 1964 old spillway between Cotton Belt and Frisco Railroads upstream near Peach Orchard was blasted to divert floodwater.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	398	72	168	781	168	1180	6250	940	186	168	168	176
2	252	96	159	731	940	1000	5320	781	176	142	159	150
3	212	110	142	731	1390	731	3760	584	159	126	242	142
4	142	118	134	1420	1120	536	3010	489	150	118	1270	134
5	126	272	126	1270	858	398	2330	420	142	118	2050	126
6	103	536	118	781	781	354	1740	376	150	159	1880	168
7	90	584	118	560	656	333	1240	443	252	919	1460	168
8	82	354	134	398	512	376	858	1360	354	2050	1120	159
9	79	252	203	354	398	354	858	1770	222	1770	884	150
10	76	212	312	489	312	466	1300	1520	212	1390	681	134
11	72	222	272	1810	272	1040	858	1210	212	1120	536	134
12	72	512	222	1910	272	1800	608	706	212	806	376	292
13	69	420	176	1330	252	3400	376	681	212	632	252	1060
14	67	333	168	858	242	2940	354	832	212	420	212	1420
15	81	242	159	681	232	2540	322	584	194	272	212	1150
16	81	168	194	489	212	2080	312	512	168	222	354	806
17	78	159	168	354	222	1840	292	398	150	194	976	632
18	76	142	150	292	354	1600	292	312	354	176	1030	489
19	74	126	150	272	312	2470	398	252	656	159	781	354
20	71	118	194	272	272	2740	560	222	420	222	420	809
21	69	103	168	252	232	1980	560	203	292	560	272	1210
22	68	96	194	252	212	1330	656	186	194	858	232	970
23	67	89	354	232	1980	1060	312	222	176	706	203	584
24	67	142	312	212	3920	940	312	176	150	466	186	420
25	67	584	443	203	3700	880	354	194	142	466	176	333
26	68	656	781	203	2980	781	1660	292	134	466	159	272
27	65	443	632	194	2190	632	2120	203	150	333	150	222
28	62	312	443	176	1560	1660	1800	212	443	292	150	203
29	68	242	443	186	---	5160	1630	242	354	272	142	176
30	79	222	608	159	---	6430	1270	272	212	176	150	168
31	75	---	681	150	---	6520	---	212	---	168	212	---
TOTAL	3056	7937	8526	18002	26551	55551	41712	16806	7040	15896	17065	13211
MEAN	98.6	265	275	581	948	1792	1390	542	235	513	550	440
MAX	398	656	781	1910	3920	6520	6250	1770	656	2050	2050	1420
MIN	62	72	118	150	168	333	292	176	134	118	142	126
AC-FT	6060	15740	16910	35710	52660	110200	82740	33330	13960	31530	33810	26200

CAL YR 1974 TOTAL 158931 MEAN 435 MAX 2860 MIN 62 AC-FT 315200
WTR YR 1975 TOTAL 231333 MEAN 634 MAX 6520 MIN 62 AC-FT 458800

07045000 Little River ditch 66 near Kennett, Mo.

LOCATION.--Lat 36°14'09", long 89°58'48", in NE¼ sec.4, T.18 N., R.10 E., Dunklin County, on downstream side of bridge on State Highway 84, and 4 mi (6.4 km) east of Kennett.

PERIOD OF RECORD.--October 1926 to current year.

GAGE.--Nonrecording gage. Datum of gage is 241.00 ft (73.457 m) above mean sea level (Corps of Engineers bench mark). Prior to Oct. 20, 1966, at site 100 ft (30 m) upstream at present datum.

AVERAGE DISCHARGE.--49 years, 376 ft^3/s (10.65 m^3/s), 272,400 acre-ft/yr (336 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 9,370 ft^3/s (265 m^3/s) Mar. 31 (gage height, 16.84 ft or 5.133 m); minimum, 227 ft3/s (6.43 m^3/s) Oct. 14, 26-28; minimum gage height, 1.35 ft (0.411 m) Oct. 28.
Period of record: Maximum discharge, 9,370 ft^3/s (265 m^3/s) Mar. 31, 1973 (gage height, 16.84 ft or 5.133 m); maximum gage height, 21.79 ft (6.642 m) Mar. 11, 1964; no flow at times 1944-65.

REMARKS.--Records fair. Ditches 66 and 66-A made one ditch in vicinity of gage on May 12, 1965. Little River ditch 66 heads in Little River ditch 251 at a point 7.6 mi (12.2 km) upstream. Since Oct. 27, 1965 some base flow received from ditch 251.

REVISIONS (WATER YEARS).--WSP 877: 1938.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	525	265	432	900	525	1600	8860	1300	432	304	318	332
2	402	304	388	795	1260	1460	7820	1100	402	332	318	318
3	359	318	373	940	1680	1140	5890	795	402	304	318	304
4	332	332	359	1500	1340	830	4200	691	373	278	1140	278
5	304	590	332	1260	1180	691	3000	590	373	265	2230	278
6	278	865	332	900	1020	657	2180	557	373	345	2030	345
7	291	1020	332	725	900	623	1500	725	525	1420	1460	359
8	252	760	345	623	725	691	1100	2080	657	3000	1100	345
9	239	623	557	557	590	691	985	2480	462	2480	900	332
10	239	493	590	590	525	760	1020	2180	462	1930	725	318
11	239	525	525	1780	493	1340	795	1540	417	1500	590	318
12	239	691	462	2280	462	1930	760	1100	432	1180	493	525
13	239	691	388	1540	462	5340	725	1100	432	940	417	1340
14	227	623	359	1100	417	4320	691	1140	462	657	417	1980
15	252	525	359	980	388	3240	657	1020	417	493	402	1580
16	239	432	359	691	417	2580	657	865	332	417	623	1220
17	239	417	345	590	417	2380	623	760	417	388	1340	980
18	239	388	318	493	493	2030	623	590	590	359	1180	760
19	239	373	318	493	462	3180	795	557	900	345	760	590
20	239	359	373	493	462	3960	830	525	590	417	525	930
21	239	332	359	493	432	2730	980	493	493	830	462	1340
22	239	318	388	462	590	1880	795	493	402	1100	417	1180
23	239	318	332	432	2080	1540	725	525	373	940	388	830
24	239	359	345	417	6520	1420	691	462	345	657	373	657
25	239	760	760	417	5890	1420	725	493	318	590	345	525
26	227	830	980	417	4320	1140	1830	590	304	493	332	462
27	227	657	830	388	3120	940	2880	493	332	493	332	402
28	227	557	691	373	2080	2780	2280	493	795	462	318	373
29	239	493	657	373	---	7660	1780	525	623	402	304	345
30	252	432	795	345	---	9020	1580	557	417	345	318	332
31	252	---	830	345	---	9370	---	462	---	332	402	---
TOTAL	8231	15650	14813	23612	40050	79423	57897	27281	13852	23998	21277	19878
MEAN	266	522	478	762	1430	2562	1930	880	462	774	686	663
MAX	525	1020	980	2280	6520	9370	8860	2480	900	3000	2230	1980
MIN	227	265	318	345	388	623	623	462	304	265	304	278
AC-FT	16330	31040	29380	46830	79440	157500	114800	54110	27480	47600	42200	39430

CAL YR 1974 TOTAL 248450 MEAN 681 MAX 3900 MIN 215 AC-FT 492800
WTR YR 1975 TOTAL 345962 MEAN 948 MAX 9370 MIN 227 AC-FT 686200

07046000 Little River ditch 259 near Kennett, Mo.

LOCATION.--Lat 36°14'08", long 89°58'41", in NW¼ sec.3, T.18 N., R.10 E., Dunklin County, on downstream side of bridge on State Highway 84, and 4 mi (6.4 km) east of Kennett.

DRAINAGE AREA.--89.0 mi² (230.5 km²).

PERIOD OF RECORD.--November 1926 to current year.

GAGE.--Nonrecording gage. Datum of gage is 241.00 ft (73.457 m) above mean sea level (Corps of Engineers bench mark). Prior to Oct. 20, 1966, at site 100 ft (30.5 m) upstream at present datum.

AVERAGE DISCHARGE.--48 years, 112 ft³/s (3.17 m³/s), 81,100 acre-ft/yr (100 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 3,760 ft³/s (106 m³/s) March 29 (gage height, 12.05 ft or 3.673 m); minimum, 14 ft³/s (0.396 m³/s) Oct. 23; minimum gage height, -0.77 ft (-0.235 m) Aug. 14.

Period of record: Maximum discharge, 4,140 ft³/s (117 m³/s), including some overflow from levee breaks on Mississippi River, Apr. 29, 1927 (gage height, 15.57 ft or 4.746 m); no flow on many days in 1936, 1944-45, 1952-53.

REMARKS.--Records fair. Discharge affected by drainage from rice fields.

REVISIONS (WATER YEARS).--WSP 1281: 1932.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	18	26	168	134	70	1580	49	34	19	22	24
2	16	40	24	177	546	53	1040	40	32	18	32	20
3	17	38	23	784	280	43	582	37	32	18	58	20
4	17	36	22	304	156	36	334	34	31	18	116	20
5	16	48	22	109	205	36	191	32	30	18	152	38
6	16	36	22	65	164	32	132	32	30	16	112	178
7	16	26	22	49	95	36	95	128	30	21	64	41
8	15	24	24	39	69	31	81	74	29	32	41	28
9	15	20	23	109	44	30	154	58	28	59	31	22
10	15	30	23	714	38	94	274	37	31	46	28	19
11	15	102	24	784	36	440	92	50	42	30	25	35
12	16	109	24	263	35	1010	55	62	36	25	24	286
13	16	48	22	102	34	1600	48	70	30	22	21	140
14	16	36	22	61	32	719	42	49	30	21	18	70
15	16	26	67	49	30	415	37	44	28	20	22	40
16	16	23	61	41	30	658	37	42	25	18	28	33
17	15	22	34	39	34	461	36	39	26	16	28	30
18	15	24	26	41	42	225	32	37	28	17	37	28
19	15	21	22	37	34	1040	68	37	26	16	32	32
20	15	20	23	32	28	298	41	35	25	21	33	160
21	15	18	24	32	27	186	35	34	24	34	28	164
22	15	18	23	31	84	178	34	34	24	50	24	98
23	14	18	23	34	1860	148	31	34	22	28	24	36
24	15	109	71	32	1950	274	31	33	21	26	23	34
25	15	334	148	32	719	120	112	34	20	34	22	33
26	15	102	92	30	298	80	140	34	20	24	22	28
27	15	46	49	28	182	528	109	36	24	21	21	24
28	15	27	64	28	112	2990	67	35	22	19	20	22
29	18	27	148	26	---	3760	55	36	22	18	20	21
30	16	32	132	26	---	3760	59	45	22	18	28	20
31	15	---	152	30	---	3130	---	37	---	17	24	---
TOTAL	486	1558	1482	4296	7278	22561	5624	1378	824	760	1180	1742
MEAN	15.7	51.9	47.8	139	260	728	187	44.5	27.5	24.5	38.1	58.1
MAX	20	334	152	784	1950	3760	1580	128	42	59	152	286
MIN	14	18	22	26	27	30	31	32	20	16	18	19
AC-FT	964	3090	2940	8520	14440	44750	11160	2730	1630	1510	2340	3460

CAL YR 1974 TOTAL 35514 MEAN 97.3 MAX 2050 MIN 14 AC-FT 70440
WTR YR 1975 TOTAL 49169 MEAN 135 MAX 3760 MIN 14 AC-FT 97530

WHITE RIVER BASIN

07050580 James River near Strafford, Mo.

LOCATION.--Lat 37°12'11", long 93°04'47", in SW¼NW¼NW¼ sec.24, T.29 N., R.20 W., Greene County, on right bank 15 ft (5 m) downstream from bridge on county road, 1.6 mi (2.6 km) downstream from County Line Damsite, 1 mi (1.6 km) downstream from Davis Creek and 4 mi (6.4 km) south of Strafford.

DRAINAGE AREA.--165 mi² (427 km²).

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1210 ft (369 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 11,200 ft³/s (317 m³/s) June 17 (gage height, 15.49 ft or 4.721 m); minimum, 2.0 ft³/s (0.057 m³/s), Aug. 10-14 (gage height 2.21 ft or 0.674 m).

Period of record: Maximum discharge, 11,200 ft³/s (317 m³/s) June 17, 1975 (gage height, 15.49 ft or 4.721 m); minimum discharge, 2.0 ft³/s (0.057 m³/s) Aug. 10-14, 1975; minimum gage height, 2.18 ft (0.664 m) Aug. 4, 1974.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	201	57	778	838	718	336	891	29	37	6.4	36
2	26	390	54	447	597	533	286	469	36	33	6.4	25
3	25	1090	50	410	467	419	247	343	36	30	6.4	19
4	23	4000	48	337	397	353	218	266	35	27	5.8	16
5	20	1250	46	277	376	306	193	216	33	25	5.4	13
6	19	659	58	234	350	271	174	181	31	23	4.7	11
7	17	465	217	201	295	341	158	153	29	23	4.1	9.7
8	16	370	299	175	262	328	147	135	28	22	3.5	8.7
9	16	305	238	154	222	301	133	115	24	20	3.5	7.7
10	15	788	195	1390	194	296	121	99	42	19	2.6	76
11	14	1440	211	733	178	292	110	86	38	17	2.0	1290
12	14	669	369	415	160	838	101	76	29	16	2.0	2370
13	13	463	323	311	142	779	95	67	23	14	2.0	416
14	14	368	266	251	130	548	93	61	21	14	3.2	237
15	57	285	228	209	122	468	88	56	26	13	5.4	176
16	48	228	192	176	115	727	84	51	23	12	7.0	151
17	40	194	161	148	131	1220	79	49	2560	11	6.9	148
18	33	168	139	133	139	1410	80	55	422	9.7	6.0	151
19	28	150	120	120	139	1240	83	53	251	9.5	5.7	528
20	24	130	106	108	131	664	74	49	181	10	6.0	445
21	22	117	94	98	124	499	68	66	139	11	6.1	267
22	20	107	85	87	3420	397	64	58	112	11	5.6	189
23	18	97	77	79	2150	337	63	50	96	11	5.0	142
24	17	87	70	77	949	286	146	46	82	11	4.4	111
25	15	79	63	90	676	244	1060	48	73	11	4.1	89
26	16	73	58	93	601	217	414	49	64	9.8	3.8	74
27	20	69	54	89	671	511	283	46	54	9.7	3.8	62
28	22	63	50	88	753	1360	360	40	48	9.4	3.8	54
29	24	62	49	89	---	940	285	37	48	8.4	4.1	53
30	80	61	49	205	---	556	2920	35	41	7.6	123	336
31	150	---	607	1780	---	412	---	32	---	6.9	66	---
TOTAL	894	14248	4633	9782	14729	17811	8563	3978	4654	492.0	324.7	7511.1
MEAN	28.8	475	149	316	526	575	285	128	155	15.9	10.5	250
MAX	150	4000	607	1780	3420	1410	2920	891	2560	37	123	2370
MIN	13	61	46	77	115	217	63	32	21	6.9	2.0	7.7
CFSM	.17	2.88	.90	1.92	3.19	3.48	1.73	.78	.94	.10	.06	1.52
IN.	.20	3.21	1.04	2.21	3.32	4.02	1.93	.90	1.05	.11	.07	1.69
AC-FT	1770	28260	9190	19400	29210	35330	16980	7890	9230	976	644	14900

CAL YR 1974 TOTAL 73348.3 MEAN 201 MAX 4000 MIN 8.5 CFSM 1.22 IN 16.54 AC-FT 145500
WTR YR 1975 TOTAL 87619.8 MEAN 240 MAX 4000 MIN 2.0 CFSM 1.45 IN 19.75 AC-FT 173800

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	0800	12.78	5,980	6-17	0715	15.49	11,200
2-22	1900	13.72	7,420	9-11	2315	12.58	5,770
4-30	1100	12.80	6,000	9-30	2400	10.98	4,270

07050700 James River near Springfield, Mo.

LOCATION.--Lat 37°08'59", long 93°12'10", in NE¼NW¼ sec.11, T.28 N., R.21 W., Greene County, on left bank on county road at Kinser bridge, 1.1 mi (1.8 km) downstream from Pearson Creek, and 2.5 mi (4.0 km) southeast of Springfield.

DRAINAGE AREA.--246 mi² (637 km²).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,143.27 ft (348.469 m) above mean sea level (levels by Corps of Engineers). Prior to Dec. 19, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--20 years, 219 ft³/s (6.20 m³/s), 12.09 in/yr (307 mm/yr), 158,700 acre-ft/yr (196 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 14,200 ft³/s (402 m³/s) June 17 (gage height, 15.71 ft or 4.788 m); minimum, 7.7 ft³/s (0.218 m³/s) Aug. 11 (gage height, 2.56 ft or 0.780 m).

Period of record: Maximum discharge, 24,800 ft³/s (702 m³/s) Dec. 17, 1957 (gage height, 18.20 ft or 5.547 m); minimum, 0.1 ft³/s (0.003 m³/s) Sept. 16, 24, 25, 1956 (gage height, 2.18 ft or 0.664 m).

Maximum stage known about 22 ft (6.7 m) in July 1909, from information by local resident.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	405	111	1110	1280	963	551	1380	59	73	15	74
2	46	342	102	660	936	803	468	750	57	66	15	50
3	44	1110	96	566	687	618	401	498	59	60	15	39
4	41	6090	91	478	584	553	338	390	56	55	15	32
5	38	1750	86	400	504	478	311	319	64	51	14	28
6	36	1020	99	348	500	425	276	268	61	50	13	24
7	34	766	184	307	429	498	252	236	63	48	12	21
8	31	565	340	273	380	498	233	220	59	43	12	19
9	31	460	309	246	334	460	215	195	54	41	12	17
10	30	918	266	1110	297	447	197	174	150	39	11	63
11	29	1730	258	1060	266	418	181	159	132	37	9.5	743
12	29	954	365	612	247	956	172	147	102	34	9.8	3810
13	31	729	402	426	225	1220	162	135	81	32	9.3	736
14	51	522	351	369	208	965	158	125	68	29	12	468
15	98	434	310	316	193	710	151	114	64	28	17	306
16	103	374	272	274	184	826	141	105	57	27	19	265
17	90	329	239	242	186	1600	136	99	5210	24	18	230
18	77	291	214	221	192	1620	136	94	900	24	17	230
19	66	261	195	206	187	1830	138	88	532	24	15	416
20	58	235	179	190	179	1160	128	91	337	26	15	584
21	53	217	164	176	171	908	119	177	268	25	14	378
22	49	196	153	162	3000	800	112	130	219	24	14	288
23	45	180	143	151	4540	577	111	106	190	23	12	225
24	42	167	133	146	1500	486	179	92	166	23	12	185
25	40	154	123	151	1100	416	1280	91	149	22	11	154
26	66	144	114	153	962	366	730	87	130	21	11	130
27	73	133	109	148	987	482	516	84	111	20	12	109
28	63	125	103	144	1060	1650	568	75	98	19	12	92
29	67	121	101	143	---	1380	545	74	90	18	12	94
30	66	119	99	161	---	1010	3080	68	82	17	105	92
31	134	---	314	1750	---	822	---	63	---	15	132	---
TOTAL	1712	20841	6025	12699	21318	25945	11985	6634	9668	1038	622.6	9903
MEAN	55.2	695	194	410	761	837	400	214	322	33.5	20.1	330
MAX	134	6090	402	1750	4540	1830	3080	1380	5210	73	132	3810
MIN	29	119	86	143	171	366	111	63	54	15	9.3	17
CFSM	.22	2.83	.79	1.67	3.09	3.40	1.63	.87	1.31	.14	.08	1.34
IN.	.26	3.15	.91	1.92	3.22	3.92	1.81	1.00	1.46	.16	.09	1.50
AC-FT	3400	41340	11950	25190	42280	51460	23770	13160	19180	2060	1230	19640

CAL YR 1974 TOTAL 108080.0 MEAN 296 MAX 6090 MIN 15 CFSM 1.20 IN 16.34 AC-FT 214400
WTR YR 1975 TOTAL 128390.6 MEAN 352 MAX 6090 MIN 9.3 CFSM 1.43 IN 19.42 AC-FT 254700

PEAK DISCHARGE (BASE, 4,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-04	1015	14.36	9,020	6-17	1300	15.71	14,200
2-23	0030	14.72	10,200	9-12	0615	13.46	6,630
4-30	1500	13.51	6,750				

07052100 Wilson Creek near Springfield, Mo.

LOCATION.--Lat. 37°10'06", long 93°22'14", in NE¼NE¼ sec.6, T.28 N., R.22 W., Greene County, on right bank just downstream from bridge on county road, 1 mi (1.6 km) upstream from Southwest Sewage Treatment Plant of Springfield and South Creek and in Springfield.

DRAINAGE AREA.--31.4 mi² (81.3 km²).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,149.65 ft (350.413 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 2,720 ft³/s (77.0 m³/s), June 17 (gage height, 8.52 ft or 2.597 m); minimum, 0.13 ft³/s (0.004 m³/s) Aug. 24, 25, 26 (gage height, 1.31 ft or 0.399 m).
Period of record: Maximum discharge, 2,840 ft³/s (80.4 m³/s) Nov. 1, 1972 (gage height, 8.57 ft or 2.612 m); minimum, no flow at times most years.

REMARKS.--Records fair. Runoff affected by urbanized area. Records of water quality are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	22	11	26	57	57	33	27	9.1	8.7	3.2	3.3
2	5.5	32	12	29	45	46	29	24	12	8.2	2.6	4.6
3	4.6	290	9.8	23	38	39	25	24	20	8.2	1.8	6.0
4	5.4	508	9.3	18	32	34	22	21	9.6	6.6	.98	4.9
5	5.9	84	9.4	17	41	32	20	19	42	5.5	1.3	3.3
6	6.5	46	41	17	25	28	19	19	11	13	.98	2.7
7	6.0	36	24	16	22	84	18	18	28	11	.98	2.3
8	5.9	30	14	16	21	29	20	43	10	8.4	.98	2.1
9	5.7	25	13	15	18	29	17	16	9.4	8.7	.70	2.6
10	6.3	184	13	73	18	34	15	15	290	9.3	.30	214
11	6.4	63	45	22	18	195	14	15	28	6.4	.30	324
12	22	47	18	18	17	377	13	13	17	11	.70	86
13	9.2	34	16	17	16	111	14	14	14	7.1	8.3	17
14	138	28	15	15	15	71	17	14	13	6.0	34	12
15	14	25	14	15	15	65	13	13	22	6.1	21	50
16	11	22	14	14	28	56	12	12	12	5.1	23	16
17	9.7	20	13	13	19	79	12	12	662	3.8	4.2	12
18	9.3	18	13	13	14	179	12	11	46	3.6	2.4	11
19	8.8	18	12	13	14	84	11	10	32	13	2.4	200
20	8.2	16	12	12	13	60	11	192	24	9.3	2.1	32
21	8.5	15	11	12	13	50	10	113	19	4.3	2.4	19
22	8.2	14	11	11	374	40	10	15	17	3.8	2.6	16
23	7.7	13	11	11	102	37	29	13	16	3.6	1.5	14
24	7.4	11	11	15	58	31	134	11	14	3.6	.38	12
25	7.2	11	10	14	74	27	237	53	13	3.9	.13	11
26	79	11	9.6	11	66	28	44	11	13	3.5	13	9.6
27	11	11	9.4	11	55	165	35	8.6	18	2.9	1.9	9.0
28	24	10	9.4	12	59	85	62	9.4	14	6.4	1.9	8.5
29	19	10	15	12	---	53	31	44	13	6.3	3.2	65
30	11	11	10	85	---	42	49	11	9.5	3.4	100	51
31	72	---	130	171	---	37	---	9.3	---	3.2	7.8	---
TOTAL	548.1	1660	565.9	769	1287	2314	988	830.3	1465.6	203.9	247.09	1220.9
MEAN	17.7	55.3	18.3	24.8	46.0	74.6	32.9	26.8	48.9	6.58	7.97	40.7
MAX	138	508	130	171	374	377	237	192	662	13	100	324
MIN	4.6	10	9.3	11	13	27	10	8.6	9.1	2.9	.13	2.1
AC-FT	1090	3290	1120	1530	2550	4590	1960	1650	2910	404	490	2420

CAL YR 1974 TOTAL 9230.26 MEAN 25.3 MAX 848 MIN .02 AC-FT 18310
WTR YR 1975 TOTAL 12099.79 MEAN 33.2 MAX 662 MIN .13 AC-FT 24000

PEAK DISCHARGE (BASE, 1,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	0215	6.84	1,570	6-10	0400	7.01	1,670
3-11	2345	6.34	1,290	6-17	0400	8.52	2,720
4-25	0130	7.02	1,680	9-11	2200	7.04	1,690
5-20	2345	7.41	1,930				

07052160 Wilson Creek near Battlefield, Mo.

LOCATION.--Lat 37°07'02", long 93°24'14", in SW¼NW¼ sec.24, T.28 N., R.23 W., Greene County, on left bank 300 ft (91 m) downstream from bridge on county road, 0.3 mi (0.5 km) upstream from McElhaney Branch, and 1.8 mi (2.9 km) west of Battlefield.

DRAINAGE AREA.--55.0 mi^2 (142.4 km^2).

PERIOD OF RECORD.--March 1968 to September 1970, October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,100 ft (335.3 m) above mean sea level. Prior to Sept. 20, 1972, at site 300 ft (91 m) upstream.

AVERAGE DISCHARGE.--5 years, 108 ft^3/s (3.06 m^3/s), 26.7 in/yr (678 mm/yr), 78,200 acre-ft/yr (96.4 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 2,490 ft^3/s (70.5 m^3/s), June 17 (gage height, 8.55 ft or 2.606 m); minimum, 21 ft^3/s (0.59 m^3/s) Aug. 24; minimum gage height, 1.65 ft (0.503 m) Oct. 11.

Period of record.--Maximum discharge, 3,860 ft^3/s (109 m^3/s), Nov. 1, 1972 (gage height, 10.57 ft or 3.222 m); minimum, 7.6 ft^3/s (0.22 m^3/s) Aug. 25, 27, 29, 1970 (gage height, 1.42 ft or 0.432 m).

REMARKS.--Records fair. Natural flow partly regulated and affected by sewage effluent. Records of water-quality are published in Section I of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	130	68	159	272	258	154	86	45	64	29	38
2	33	115	69	146	220	238	130	79	48	60	30	43
3	32	494	67	136	192	203	120	76	70	56	29	43
4	33	1350	64	115	172	172	106	69	46	52	27	38
5	32	475	60	104	172	154	97	66	111	48	28	38
6	30	368	113	100	144	140	91	64	66	47	28	38
7	32	286	99	96	126	239	91	60	71	56	27	34
8	34	233	82	91	116	159	92	84	48	46	27	34
9	34	197	80	85	107	134	92	57	43	44	26	34
10	34	505	79	172	102	144	85	53	343	44	24	274
11	34	396	119	126	101	186	85	52	106	43	24	528
12	47	294	102	106	94	841	80	50	75	39	28	362
13	48	243	99	100	91	498	78	52	65	32	36	111
14	218	206	94	97	86	339	80	49	56	32	47	72
15	83	180	91	94	82	284	75	49	66	33	64	115
16	67	160	88	91	92	363	75	47	49	32	61	94
17	62	144	83	83	92	401	75	47	781	31	38	68
18	57	134	79	83	88	481	72	43	253	31	29	64
19	52	129	76	79	85	421	67	43	174	31	29	312
20	50	118	74	78	85	332	65	102	134	31	26	120
21	52	109	67	75	72	249	65	338	114	31	26	92
22	50	105	64	71	504	211	67	72	100	30	26	76
23	50	97	64	68	498	174	86	54	97	28	25	68
24	51	87	60	74	322	159	160	48	92	33	23	61
25	51	85	56	74	277	134	386	97	85	34	25	56
26	139	84	55	66	246	124	130	52	76	33	49	54
27	60	79	56	66	233	218	99	47	96	33	29	47
28	71	73	53	64	235	299	133	45	72	34	27	45
29	76	71	57	64	---	256	94	86	68	37	38	117
30	64	71	53	124	---	207	115	56	65	32	170	67
31	164	---	232	415	---	172	---	49	---	30	54	---
TOTAL	1877	7018	2503	3302	4986	8190	3145	2172	3515	1207	1161	3143
MEAN	60.5	234	80.7	107	178	264	105	70.1	117	38.9	37.5	105
MAX	218	1350	232	415	504	841	386	338	781	64	170	528
MIN	30	71	53	64	72	124	65	43	43	28	23	34
AC-FT	3720	13920	4960	6550	9890	16240	6240	4310	6970	2390	2300	6230

CAL YR 1974 TOTAL 42521 MEAN 116 MAX 1560 MIN 30 AC-FT 84340
WTR YR 1975 TOTAL 42219 MEAN 116 MAX 1350 MIN 23 AC-FT 83740

PEAK DISCHARGE (BASE, 1,200 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	0445	8.00	2,160	5-21	0215	6.45	1,370
2-22	1715	6.16	1,260	6-17	0715	8.55	2,490
3-12	0300	6.31	1,310	9-11	2345	6.86	1,580
4-25	0415	6.11	1,240				

07052250 James River near Boaz, Mo.

LOCATION.--Lat 37°00'25", long 93°21'50", in NE¼NE¼NW¼ sec. 32, T.27 N., R.22 W., Christian County, on left bank 150 ft (46 m) downstream from Frazier bridge, 0.2 mi (0.3 km) upstream from Turkey Hollow, and 2 mi (3.2 km) southeast of Boaz.

DRAINAGE AREA.--462 mi² (1,200 km²).

PERIOD OF RECORD.--October 1972 to current year. Occasional miscellaneous discharge measurements 1966-67.

GAGE.--Water-stage recorder. Datum of gage is 1,035.35 ft (315.575 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 11,500 ft³/s (326 m³/s) Feb. 23 (gage height, 12.07 ft or 3.679 m); minimum, 55 ft³/s (1.56 m³/s) Aug. 24-26; minimum gage height, 2.00 ft (0.610 m) Aug. 9, 10, 11.
Period of record: Maximum discharge, 31,400 ft³/s (889 m³/s) July 1, 1973 (gage height, 20.56 ft or 6.267 m); minimum, 55 ft³/s (1.58 m³/s) Sept. 2, 3, 4, 23, 24, 1973, Aug. 24-26, 1975.

REMARKS.--Records fair. Partly regulated at low flow by Lake Springfield and sewage effluent from City of Springfield Southwest Treatment Plant. Records of water quality are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	576	264	1670	2750	2300	1370	3280	200	182	70	156
2	149	623	255	1400	1870	2110	1120	1320	203	171	70	123
3	131	1760	249	1210	1500	1680	930	897	235	162	66	107
4	124	9040	243	1010	1270	1370	788	700	231	156	63	92
5	121	5760	232	838	1100	1150	694	580	396	146	63	84
6	115	2810	257	729	937	979	629	492	381	138	60	77
7	113	1970	325	655	846	1240	579	436	369	188	66	71
8	113	1500	445	569	742	1190	551	420	301	168	68	66
9	107	1160	526	530	658	1050	512	376	254	143	60	66
10	103	1690	484	867	592	1010	473	334	755	131	58	136
11	101	3440	514	1990	552	916	444	316	466	123	58	453
12	105	2350	549	1620	524	2600	418	292	352	114	63	4720
13	135	1680	671	871	481	2990	408	276	294	114	64	1620
14	300	1290	659	724	462	2420	395	262	259	105	94	687
15	289	999	595	646	452	1950	379	248	252	100	109	508
16	252	830	532	592	428	2020	355	237	229	98	105	435
17	238	714	476	497	442	3120	334	225	4520	92	92	350
18	214	638	433	457	414	3450	324	214	3700	88	79	312
19	197	573	397	418	401	4270	309	208	1220	86	77	559
20	179	510	369	388	393	3060	289	245	763	100	77	815
21	169	459	345	369	373	2260	270	1280	550	94	70	617
22	159	432	324	346	2260	1790	260	468	421	88	60	443
23	149	387	307	332	8910	1470	268	333	357	90	58	366
24	144	356	295	322	3760	1180	360	277	323	94	56	308
25	139	333	278	322	2620	972	2020	310	285	88	55	272
26	224	319	264	312	2150	821	1590	271	260	82	75	248
27	229	302	256	308	2000	939	922	241	241	82	77	225
28	209	289	247	302	2140	2590	785	228	225	84	60	208
29	235	280	246	302	---	2750	830	285	206	84	66	259
30	211	278	241	332	---	2170	1790	255	191	77	179	226
31	318	---	559	1830	---	1700	---	219	---	75	168	---
TOTAL	5442	43337	11837	22758	41027	59517	20396	15525	18439	3543	2386	14609
MEAN	176	1445	382	734	1465	1920	680	501	615	114	76.9	487
MAX	318	9040	671	1990	8910	4270	2020	3280	4520	188	179	4720
MIN	101	278	232	302	373	821	260	208	191	75	55	66
AC-FT	10790	85960	23480	45140	81380	118100	40460	30790	36570	7030	4730	28980

CAL YR 1974 TOTAL 236906 MEAN 646 MAX 12300 MIN 80 AC-FT 465900
WTR YR 1975 TOTAL 258814 MEAN 709 MAX 9040 MIN 55 AC-FT 513400

PEAK DISCHARGE (BASE, 7,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	2230	11.69	10,800	6-17	2330	11.49	10,500
2-23	1145	12.07	11,500				

07052500 James River at Galena, Mo.

LOCATION.--Lat 36°48'19", long 93°27'41", in SW¼SE¼SW¼ sec.6, T.24 N., R.23 W., Stone County, near left bank on downstream side of right pier of first arch span from left end of bridge on State Highways 13 and 248 in Galena, 0.7 mi (1.1 km) upstream from Railey Creek, and 42.3 mi (68.1 km) above mouth.

DRAINAGE AREA.--987 mi² (2,556 km²).

PERIOD OF RECORD.--October 1921 to current year (October 1921, monthly discharge only published in WSP 1311).

GAGE.--Water-stage recorder. Datum of gage is 921.37 ft (280.834 m) above mean sea level. Prior to Dec. 11, 1927, nonrecording gage at site 500 ft (152 m) downstream at datum 1.48 ft (0.451 m) higher. Dec. 11, 1927, to July 22, 1939, nonrecording gage, and July 23, 1939, to Sept. 30, 1953, water-stage recorder at present site and at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--54 years, 955 ft³/s (27.0 m³/s), 13.14 in/yr (334 mm/yr), 691,900 acre-ft/yr (853 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 23,100 ft³/s (654 m³/s) Nov. 5 (gage height, 18.00 ft or 5.486 m); minimum, 112 ft³/s (3.17 m³/s) Aug. 26 (gage height, 3.06 ft or 0.933 m).
Period of record: Maximum discharge, 52,700 ft³/s (1,490 m³/s) May 20, 1943 (gage height, 29.82 ft or 9.089 m) present datum; minimum, 10 ft³/s (0.28 m³/s) Sept. 20, 1954; minimum gage height, 1.15 ft (0.351 m) Jan. 13, 1964 (result of ice conditions upstream).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 977: 1935(M), 1941(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	302	1150	610	2940	3840	3900	2850	5680	443	423	177	367
2	273	1640	590	3290	3110	3690	2460	2900	425	397	176	302
3	255	4110	583	2610	2630	3080	2160	2170	438	375	169	248
4	243	19700	569	2260	2330	2570	1920	1770	454	358	156	217
5	232	16500	551	1970	2120	2290	1720	1490	622	345	154	193
6	223	6720	591	1720	1910	2060	1570	1290	822	326	148	176
7	215	4430	811	1520	1750	2170	1440	1140	704	326	140	163
8	210	3350	1300	1350	1550	2280	1350	1020	698	385	140	150
9	207	2710	1480	1220	1380	2160	1180	958	577	341	137	139
10	202	2980	1330	1360	1240	2100	1090	856	728	317	131	169
11	199	6680	1270	3130	1160	1970	1020	808	915	300	125	706
12	199	5220	1300	2580	1070	3070	952	746	709	288	123	5280
13	212	3630	1450	2020	984	4560	900	697	603	278	123	4830
14	276	2840	1490	1680	919	4280	870	654	537	274	133	1630
15	590	2330	1380	1460	861	3590	837	619	517	260	166	1090
16	518	2030	1250	1280	813	3500	797	587	494	251	191	954
17	522	1740	1140	1140	798	4930	764	556	3330	243	172	772
18	491	1510	1040	1040	763	6980	739	531	7200	236	156	661
19	434	1340	959	968	741	9230	723	509	2270	230	142	719
20	385	1210	880	889	717	6470	692	500	1530	229	145	1080
21	346	1100	814	828	694	4620	660	2330	1160	257	139	1160
22	319	1010	757	771	2690	3690	635	1170	952	233	131	898
23	295	940	709	716	15500	3050	629	822	839	220	127	723
24	276	864	672	688	9320	2620	705	675	779	297	121	604
25	264	798	633	677	5180	2290	2460	607	720	312	117	518
26	255	750	596	655	4110	2040	2990	617	652	251	119	449
27	375	702	575	634	3760	2240	2040	534	583	225	141	401
28	421	665	553	618	3790	4950	1890	498	540	218	154	362
29	426	645	542	605	---	5470	1910	522	493	206	145	342
30	400	640	532	592	---	4370	2580	557	453	198	675	386
31	404	---	982	1070	---	3450	---	480	---	183	477	---
TOTAL	10049	99934	27939	44281	75730	113670	42533	34293	31187	8780	5350	25688
MEAN	324	3331	901	1428	2705	3667	1418	1106	1040	283	173	856
MAX	590	19700	1490	3290	15500	9230	2990	5680	7200	423	675	5280
MIN	199	640	532	592	694	1970	629	480	425	183	117	139
CFSM	.33	3.37	.91	1.45	2.74	3.72	1.44	1.12	1.05	.29	.18	.87
IN.	.38	3.77	1.05	1.67	2.85	4.28	1.60	1.29	1.18	.33	.20	.97
AC-FT	19930	198200	55420	87830	150200	225500	84360	68020	61860	17420	10610	50950

CAL YR 1974 TOTAL 500342 MEAN 1371 MAX 19700 MIN 196 CFSM 1.39 IN 18.86 AC-FT 992400
WTR YR 1975 TOTAL 519434 MEAN 1423 MAX 19700 MIN 117 CFSM 1.44 IN 19.58 AC-FT 1030000

PEAK DISCHARGE (BASE, 12,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-5	0130	18.00	23,100	2-23	1930	16.48	19,700

07053400 Table Rock Lake near Branson, Mo.

LOCATION.--Lat 36°35'46", long 93°18'35", in NW¼ sec.22, T.22 N., R.22 W., Taney County, at dam on White River, 3 mi (4.8 km) upstream from Fall Creek, and 6.1 mi (9.82 km) southwest of Branson.

DRAINAGE AREA.--4,020 mi² (10,412 km²).

PERIOD OF RECORD.--September 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to July 18, 1958, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum daily contents, 3,110,000 acre-ft (3.83 km³) Nov. 5-7; maximum elevation, 924.04 ft (281.647 m) Nov. 6; minimum daily contents, 2,450,000 acre-ft (3.02 km³) Aug. 28, Sept. 2-10; minimum elevation, 908.86 ft (277.021 m) Sept. 4.

Period of record: Maximum contents, 3,541,800 acre-ft (4.37 km³) May 10, 1961 (elevation, 932.52 ft or 284.232 m); minimum, since initial filling to bottom of power pool level, 1,535,500 acre-ft (1.89 km³) Feb 8, 1965 (elevation, 881.54 ft or 268.693 m).

REMARKS.--Lake is formed by a combination concrete-gravity and embankment type dam. Storage began on Sept. 9, 1956. Storage for purpose of filling to power pool level at elevation 881 ft (268.5 m) and capacity 1,520,500 acre-ft (1.87 km³) began Nov. 24, 1958 and was reached Dec. 19, 1959. Capacity is 3,567,500 acre-ft (4.40 km³) at top of spillway gates, elevation 933 ft (284.4 m). Capacity is 3,462,000 acre-ft (4.27 km³) at top of flood control pool, elevation 931 ft (283.8 m). Capacity between elevations 915 ft (278.9 m) and 931 ft (283.8 m) is reserved for flood control, 760,000 acre-ft (0.937 km³). Capacity between elevation 881 ft (268.5 m) and 915 ft (278.9 m) of 1,181,500 acre-ft (1.46 km³) is used for power generation. The capacity at the lowest outlet, elevation 721.96 ft (220.053 m), is 3,530 acre-ft (4.35 hm³). Lake is used for flood control, power, and recreational purposes. Figures represent total contents. Contents computed from daily readings at 2400 and prior to Oct. 1, 1963 to five significant figures.

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in acre-ft)

908	2,413,000	920	2,923,000
910	2,493,000	925	3,160,000

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2710000	2770000	2830000	2750000	2710000	2870000	2890000	2710000	2680000	2720000	2610000	2460000
2	2710000	2800000	2820000	2760000	2730000	2870000	2880000	2710000	2690000	2730000	2610000	2450000
3	2710000	2910000	2820000	2760000	2740000	2870000	2860000	2720000	2680000	2730000	2610000	2450000
4	2710000	3060000	2810000	2760000	2740000	2860000	2850000	2730000	2670000	2730000	2610000	2450000
5	2710000	3110000	2800000	2770000	2750000	2850000	2830000	2720000	2670000	2720000	2610000	2450000
6	2710000	3110000	2800000	2760000	2760000	2840000	2820000	2710000	2670000	2720000	2600000	2450000
7	2710000	3110000	2810000	2760000	2750000	2820000	2800000	2700000	2670000	2720000	2600000	2450000
8	2710000	3090000	2810000	2760000	2750000	2810000	2780000	2690000	2670000	2710000	2600000	2450000
9	2710000	3080000	2810000	2760000	2750000	2800000	2770000	2680000	2670000	2710000	2600000	2450000
10	2710000	3090000	2810000	2760000	2750000	2780000	2750000	2690000	2670000	2710000	2590000	2450000
11	2710000	3110000	2810000	2760000	2750000	2780000	2740000	2690000	2670000	2710000	2580000	2460000
12	2710000	3110000	2810000	2760000	2750000	2790000	2730000	2690000	2670000	2710000	2570000	2470000
13	2710000	3100000	2810000	2760000	2740000	2800000	2710000	2690000	2670000	2710000	2570000	2480000
14	2720000	3080000	2810000	2750000	2740000	2800000	2690000	2680000	2670000	2710000	2570000	2480000
15	2720000	3070000	2810000	2750000	2730000	2790000	2680000	2680000	2670000	2700000	2560000	2480000
16	2720000	3050000	2810000	2750000	2720000	2790000	2670000	2680000	2680000	2700000	2550000	2480000
17	2720000	3030000	2810000	2740000	2710000	2780000	2660000	2680000	2690000	2700000	2540000	2490000
18	2720000	3010000	2800000	2740000	2700000	2820000	2650000	2680000	2700000	2690000	2530000	2490000
19	2720000	2990000	2790000	2740000	2690000	2850000	2650000	2680000	2700000	2680000	2520000	2500000
20	2730000	2970000	2790000	2730000	2680000	2860000	2650000	2680000	2700000	2670000	2510000	2500000
21	2730000	2950000	2780000	2730000	2670000	2860000	2660000	2690000	2700000	2660000	2500000	2500000
22	2730000	2930000	2780000	2720000	2740000	2860000	2640000	2690000	2710000	2660000	2490000	2500000
23	2730000	2910000	2770000	2720000	2810000	2850000	2640000	2690000	2720000	2650000	2470000	2510000
24	2730000	2890000	2770000	2710000	2850000	2840000	2640000	2690000	2720000	2650000	2460000	2510000
25	2730000	2870000	2760000	2720000	2860000	2830000	2650000	2700000	2720000	2650000	2460000	2500000
26	2730000	2870000	2750000	2720000	2860000	2810000	2660000	2700000	2710000	2640000	2460000	2500000
27	2730000	2860000	2740000	2710000	2860000	2840000	2670000	2690000	2710000	2630000	2460000	2500000
28	2740000	2850000	2740000	2710000	2870000	2870000	2680000	2690000	2710000	2630000	2450000	2500000
29	2740000	2850000	2740000	2700000	---	2890000	2690000	2690000	2720000	2620000	2460000	2500000
30	2740000	2850000	2730000	2700000	---	2890000	2700000	2690000	2720000	2610000	2460000	2500000
31	2760000	---	2740000	2700000	---	2890000	---	2680000	---	2610000	2460000	---
(†)	916.32	924.03	917.95	916.46	918.79	919.36	919.16	915.56	915.44	915.62	912.82	910.35
(‡)	+60	+90	-110	-40	+170	+20	-190	-20	+40	-110	-150	+40
MAX	2760000	3110000	2830000	2770000	2870000	2890000	2890000	2730000	2720000	2730000	2610000	2510000
MIN	2710000	2770000	2730000	2700000	2670000	2780000	2640000	2680000	2670000	2610000	2450000	2450000

CAL YR 1974..........‡ -10
WTR YR 1975..........‡ -200

† Elevation, in feet, at end of month.
‡ Change in contents, in thousands of acre-feet.

07053500 White River near Branson, Mo.

LOCATION.--Lat 36°35'51", long 93°17'42", in SE¼NE¼ sec.22, T.22 N., R.22 W., Taney County, on left bank 0.9 mi (1.4 km) downstream from Table Rock Dam, 2.1 mi (3.4 km) upstream from Fall Creek, 5 mi (8.0 km) southwest of Branson, 7.4 mi (11.9 km) upstream from Missouri Pacific bridge, and at mile 527.8 (849.2 km).

DRAINAGE AREA.--4,022 mi² (10,417 km²).

PERIOD OF RECORD.--July 1909 to December 1910 (gage heights and discharge measurements only), October 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 696.00 ft (212.141 m) above mean sea level (levels by Corps of Engineers). July 19, 1909 to Dec. 31, 1910, nonrecording gage at site 7.4 mi (11.9 km) downstream at different datum. Oct. 1, 1951 to Mar. 6, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--24 years, 3,646 ft³/s (103 m³/s), 2,642,000 acre-ft/yr (3.26 km³/yr).

EXTREMES.--Current year: Maximum daily discharge, 19,000 ft³/s (538 m³/s) Nov. 12, 13; maximum gage height, 16.35 ft (4.983 m) Nov. 12; minimum daily discharge, 38 ft³/s (1.08 m³/s) May 24, 25, June 22, Aug. 2.
Period of record: Maximum discharge, 89,100 ft³/s (2.523 m³/s) May 16, 1956 (gage height, 36.9 ft or 11.25 m); minimum, prior to building dam, 24 ft³/s (0.68 m³/s) Sept. 20, 1954; no outflow from reservoir at various times.
Maximum stage known, 52.8 ft (16.09 m), from floodmark, Apr. 16, 1945 (discharge, 203,000 ft³/s or 5,750 m³/s).

REMARKS.--Records good. Discharge computations based on power releases, conduit releases, fish hatchery releases, and pool elevation at Table Rock Lake. Fish hatchery releases began on Feb. 18, 1959. Regulated by Table Rock Lake, some regulation since Sept. 9, 1956.

COOPERATION.--Records furnished by Corps of Engineers.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	47	8070	8220	3450	10800	14800	5860	40	1830	720	7060
2	143	45	8060	9160	551	10800	14800	7990	879	2290	38	5090
3	294	45	7860	8200	6800	12600	14800	40	5650	1310	39	4540
4	1230	5430	7590	5150	8120	12700	14800	41	4650	1230	2320	2460
5	42	13400	7590	3020	6370	14800	14900	10900	3020	2520	3800	659
6	42	16200	7740	8270	7440	14900	14900	11400	6380	1240	2550	40
7	43	17000	5590	8100	8110	14800	15000	11600	2030	4190	1630	472
8	4630	17000	5800	8210	6050	14900	14990	11600	600	5990	2590	42
9	43	17100	6700	8180	5930	15000	14900	8860	2730	2460	2750	40
10	47	13100	6770	9790	8130	15000	11800	4290	259	640	2610	460
11	424	16600	7820	6260	8060	13100	11800	4050	39	261	6990	39
12	43	19000	7550	6400	9180	10500	11900	7490	40	39	9130	42
13	43	19000	7690	8950	10190	14200	11800	6960	1980	40	4460	43
14	43	18800	6010	10200	9880	15000	12600	9900	959	41	4360	42
15	2550	19000	4060	7060	11300	14800	9460	5770	39	3230	6420	624
16	4060	17300	8260	8190	11600	14800	8640	5390	260	1910	5300	752
17	352	14700	8170	8170	11500	14900	8570	271	2110	4960	6380	300
18	43	15600	8150	4130	11600	10400	9460	931	3270	4160	8440	751
19	43	16800	8110	3000	8610	13000	2870	7150	4870	4450	6520	302
20	45	16900	8370	6320	8690	14800	1660	5930	4450	5170	8130	2090
21	296	16700	5240	6180	5620	14900	4710	4230	2320	6280	8540	44
22	47	15800	5200	6230	1230	14800	9770	5930	38	5540	7870	544
23	45	14800	7040	6190	2290	14800	7700	3520	3210	6580	8820	43
24	44	14800	8140	6070	9920	14800	7190	38	4910	1970	9160	2080
25	43	14200	8190	48	13000	14900	6760	38	5200	1600	1570	2280
26	46	9790	8220	50	14400	14900	39	39	6720	2870	1560	2380
27	45	9700	8130	7810	10700	11100	40	4050	4910	5640	3900	1480
28	44	8610	5150	3490	10600	13100	8550	4750	1240	6380	3510	42
29	43	7610	2940	4870	---	14800	3210	4770	479	5470	1740	543
30	46	8090	7730	3630	---	14800	3970	7650	3870	4400	569	292
31	44	---	7630	4290	---	14800	---	2420	---	3210	979	---
TOTAL	14944	393167	219570	192838	229231	429500	286299	163858	77152	97891	133225	35576
MEAN	482	13110	7083	6221	8187	13850	9543	5286	2572	3158	4298	1186
MAX	4630	19000	8370	10200	14400	15000	15000	11600	6720	6580	9160	7060
MIN	41	45	2940	48	551	10400	39	38	38	39	38	39
AC-FT	29640	779800	435500	382500	454700	851900	567900	325000	153000	194200	264300	70560

CAL YR 1974 TOTAL 2437943 MEAN 6679 MAX 19000 MIN 40 AC-FT 4836000
WTR YR 1975 TOTAL 2273251 MEAN 6228 MAX 19000 MIN 38 AC-FT 4509000

07057500 North Fork River near Tecumseh, Mo.

LOCATION.--Lat 36°37'22", long 92°14'53", in NE¼SE¼ sec.35, T.23 N., R.12 W., Ozark County, on right bank 3.2 mi (5.2 km) downstream from Spring Creek, and 3.5 mi (5.6 km) northeast of Tecumseh.

DRAINAGE AREA.--561 mi^2 (1,453 km^2).

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 584.67 ft (178.207 m) above mean sea level (levels by Corps of Engineers). Prior to May 12, 1945, nonrecording gage at same site at datum 0.22 ft (0.067 m) lower.

AVERAGE DISCHARGE.--31 years, 728 ft^3/s (20.61 m^3/s), 17.62 in/yr (448 mm/yr), 527,500 acre-ft/yr (650 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 18,800 ft^3/s (532 m^3/s) Jan. 10 (gage height, 14.28 ft or 4.353 m); minimum, 282 ft^3/s (7.99 m^3/s) Aug. 25, 26 (gage height, 2.47 ft or 0.753 m).

Period of record: Maximum discharge, 37,900 ft^3/s (1,073 m^3/s) Apr. 22, 1974 (gage height, 22.15 ft or 6.751 m); minimum, 187 ft^3/s (5.30 m^3/s) Sept. 14-18, 1954 (gage height, 2.06 ft or 0.628 m).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	462	455	536	448	893	1530	1930	1200	609	543	352	445
2	449	456	528	536	1140	1370	1720	1100	602	526	353	409
3	444	509	520	549	1160	1240	1530	1050	594	514	351	381
4	441	1870	513	549	1120	1150	1370	1010	589	505	350	364
5	439	1870	501	540	1090	1080	1280	961	607	499	336	364
6	436	1120	513	523	1010	1040	1200	925	911	493	330	364
7	439	867	526	503	939	1010	1150	898	698	491	324	344
8	438	756	547	504	905	1110	1130	909	709	481	315	333
9	438	694	543	533	866	1030	1090	920	659	475	311	333
10	434	983	535	11400	827	1040	1060	873	626	470	311	387
11	433	2630	527	6590	828	996	1010	835	600	458	305	1170
12	438	1660	518	2460	807	1360	968	820	580	459	302	3750
13	440	1230	509	1670	767	2040	941	791	570	451	301	1760
14	474	1020	495	1340	757	1990	942	768	561	443	299	1100
15	487	880	493	1110	753	1760	916	757	597	436	300	864
16	480	799	481	961	744	1640	890	743	609	423	319	740
17	470	742	473	850	731	1820	885	727	616	418	302	892
18	460	705	462	804	716	2290	890	713	594	418	408	1540
19	453	681	452	766	700	4240	900	703	569	416	344	2210
20	447	656	448	722	679	3200	851	708	549	413	313	3360
21	442	629	435	691	671	2490	814	745	531	416	307	1760
22	437	609	432	661	1200	2070	794	714	534	405	300	1280
23	434	600	422	630	4860	1830	801	686	1500	402	295	1040
24	434	591	422	628	3110	1660	840	675	788	399	292	898
25	440	571	405	640	2290	1460	3510	678	688	392	295	850
26	440	559	395	622	1910	1310	2550	673	642	383	334	800
27	440	552	392	606	1750	1520	1810	651	610	381	337	750
28	444	545	388	597	1650	3670	1540	645	590	371	334	700
29	462	543	402	589	---	3560	1370	643	578	367	348	650
30	458	542	405	575	---	2730	1310	636	557	362	552	600
31	459	---	414	681	---	2240	---	629	---	352	572	---
TOTAL	13892	26324	14632	40278	34873	57476	37992	24786	19467	13562	10492	30438
MEAN	448	877	472	1299	1245	1854	1266	800	649	437	338	1015
MAX	487	2630	547	11400	4860	4240	3510	1200	1500	543	572	3750
MIN	433	455	388	448	671	996	794	629	531	352	292	333
CFSM	.80	1.56	.84	2.32	2.22	3.30	2.26	1.43	1.16	.78	.60	1.81
IN.	.92	1.75	.97	2.67	2.31	3.81	2.52	1.64	1.29	.90	.70	2.02
AC-FT	27550	52210	29020	79890	69170	114000	75360	49160	38610	26900	20810	60370

CAL YR 1974 TOTAL 389667 MEAN 1068 MAX 19600 MIN 388 CFSM 1.90 IN 25.84 AC-FT 772900
WTR YR 1975 TOTAL 324212 MEAN 888 MAX 11400 MIN 292 CFSM 1.58 IN 21.50 AC-FT 643100

PEAK DISCHARGE (BASE, 5,000 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-10	2030	14.28	18,800	4-25	1215	7.53	6,350
2-23	1100	7.18	5,960	9-12	1000	7.02	5,490
3-28	1615	6.96	5,500	9-20	0100	6.65	5,070

07058000 Bryant Creek near Tecumseh, Mo.

LOCATION.--Lat 36°37'33", long 92°18'16", in E½ sec.32, T.23 N., R.12 W., Ozark County, on left bank 0.8 mi (1.3 km) downstream from Pine Creek, 3 mi (4.8 km) northwest of Tecumseh, and 5 mi (8.0 km) upstream from mouth.

DRAINAGE AREA.--570 mi² (1,476 km²).

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 573.15 ft (174.696 m) above mean sea level (levels by Corps of Engineers). Prior to July 30, 1945, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--31 years, 536 ft³/s (15.2 m³/s), 12.77 in/yr (324 mm/yr), 388,300 acre-ft/yr (479 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 13,800 ft³/s (391 m³/s) Nov. 4 (gage height, 14.79 ft or 4.508 m); minimum, 156 ft³/s (4.42 m³/s) Aug. 24, 25, 26 (gage height, 2.42 ft or 0.738 m).

Period of record: Maximum discharge, 33,200 ft³/s (940 m³/s) Mar. 11, 1973 (gage height, 21.93 ft or 6.684 m); minimum, 96 ft³/s (2.72 m³/s) Sept. 16, 17, 1954; minimum gage height, 1.98 ft (0.604 m) Aug. 13, 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1117: Drainage area. WSP 1441: 1945, 1946-47(M), 1950. WSP 1731 1945-47, 1950.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	281	246	369	533	811	1120	1530	896	350	272	194	190
2	265	257	356	634	1000	1000	1360	813	342	249	200	182
3	252	732	347	630	940	899	1200	767	339	266	200	179
4	243	7510	338	618	875	839	1060	727	334	260	203	177
5	237	4540	338	589	854	792	980	684	349	257	186	180
6	232	1680	346	574	811	754	915	652	410	258	180	180
7	228	1180	404	552	744	732	875	627	363	299	175	183
8	224	933	508	562	701	727	854	664	348	293	172	175
9	221	790	498	661	659	689	821	662	339	260	169	176
10	217	1840	467	6940	621	726	774	573	335	268	163	205
11	219	3860	458	3670	612	709	732	544	337	265	165	585
12	218	1910	453	1880	584	1010	698	525	329	271	163	2700
13	226	1400	439	1410	535	1520	671	495	321	265	160	1090
14	238	1130	423	1180	518	1450	664	476	318	249	176	623
15	277	938	422	1030	502	1340	642	469	343	243	183	469
16	291	823	411	925	485	1320	614	453	332	236	193	407
17	296	748	400	832	469	1460	603	437	349	228	190	750
18	295	683	390	782	449	2300	603	426	338	224	178	693
19	283	637	389	738	432	3770	627	416	318	230	172	1310
20	267	588	380	680	418	2410	588	418	306	240	167	1510
21	256	535	376	635	411	1920	545	483	296	242	163	887
22	246	503	370	594	873	1730	523	461	294	233	163	680
23	242	482	372	555	3350	1500	519	421	360	222	160	558
24	236	464	366	541	2130	1350	559	405	363	218	157	481
25	234	431	358	558	1590	1160	2680	410	322	215	158	426
26	231	408	350	530	1410	1030	1720	396	310	210	192	390
27	229	399	351	506	1300	1160	1260	379	298	208	217	365
28	227	388	347	486	1220	2950	1100	371	290	205	218	351
29	243	384	367	472	---	2770	1030	372	287	208	195	337
30	247	386	371	454	---	2150	945	365	282	198	209	324
31	241	---	391	622	---	1780	---	359	---	193	206	---
TOTAL	7642	36805	12155	31373	25304	45067	27684	16146	9902	7513	5627	16771
MEAN	247	1227	392	1012	904	1454	923	521	330	242	182	559
MAX	296	7510	508	6940	3350	3770	2680	896	410	299	218	2700
MIN	217	246	338	454	411	689	519	359	282	193	157	175
CFSM	.43	2.15	.69	1.78	1.59	2.55	1.62	.91	.58	.42	.32	.98
IN.	.50	2.40	.79	2.05	1.65	2.94	1.81	1.05	.65	.49	.37	1.09
AC-FT	15160	73000	24110	62230	50190	89390	54910	32030	19640	14900	11160	33270

CAL YR 1974 TOTAL 291842 MEAN 800 MAX 15500 MIN 212 CFSM 1.40 IN 19.05 AC-FT 578900
WTR YR 1975 TOTAL 241989 MEAN 663 MAX 7510 MIN 157 CFSM 1.16 IN 15.79 AC-FT 480000

PEAK DISCHARGE (BASE, 6,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	2115	14.79	13,800	1-10	1845	12.17	8,160

07061300 East Fork Black River at Lesterville, Mo.

LOCATION.--Lat 37°27'03", long 90°49'38", in NE¼SE¼ sec.16, T.32 N., R.2 E., Reynolds County, at bridge on State Highway 21 at Lesterville, and 0.8 mi (1.3 km) upstream from Black River.

DRAINAGE AREA.--94.5 mi² (244.8 km²).

PERIOD OF RECORD.--January 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 655.34 ft (199.748 m) above mean sea level.

AVERAGE DISCHARGE.--15 years, 106 ft³/s (3.00 m³/s), 76,800 acre-ft/yr (94.7 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,590 ft³/s (187 m³/s) Feb. 23 (gage height, 9.30 ft or 2.835 m); minimum, 1.5 ft³/s (0.042 m³/s) Aug. 12, 13 (gage height, 1.63 ft or 0.497 m).

Period of record: Maximum discharge, 10,400 ft³/s (295 m³/s) Nov. 2, 1972 (gage height, 11.13 ft or 3.392 m); no flow Oct. 15 to Nov. 21, 1963, July 17-21, July 31 to Aug. 20, 1964, Nov. 13, 14, 1971.

Flood of March 1935 reached a stage of about 13.8 ft (4.21 m) from information by local resident.

REMARKS.--Records fair. Low flow regulated by Union Electric Company Taum Sauk pumped-storage power plant lower reservoir, 4 mi (6.4 km) upstream, since Feb. 19, 1963, capacity 6,350 acre-ft (7.83 hm³).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	4.6	44	244	1140	195	252	119	25	5.0	3.4	62
2	6.1	4.6	41	213	538	148	192	100	20	3.2	3.4	66
3	5.7	5.6	42	251	137	84	87	90	22	2.7	3.1	10
4	5.5	938	42	221	210	102	135	78	25	2.2	7.6	34
5	5.2	559	41	222	189	103	68	68	24	2.1	31	25
6	5.0	238	41	118	119	28	94	78	29	7.2	5.7	11
7	4.7	140	42	20	122	147	107	617	25	36	3.3	16
8	4.7	105	41	153	70	37	70	346	17	14	2.6	30
9	4.4	87	41	617	76	105	76	291	14	13	2.5	22
10	4.3	124	42	1450	250	141	66	182	17	11	2.6	39
11	4.2	1000	41	2370	16	108	71	140	7.7	15	2.4	13
12	4.8	362	40	497	12	1470	56	173	18	8.7	2.0	28
13	9.3	163	55	271	11	889	62	146	36	3.4	1.8	10
14	31	104	109	175	19	378	38	111	12	2.8	3.9	35
15	59	114	13	62	72	249	36	94	9.3	2.9	4.9	23
16	58	97	10	174	96	426	76	75	6.7	6.6	4.5	55
17	51	96	98	20	26	486	20	28	28	2.9	4.7	34
18	43	162	9.7	98	91	279	266	13	35	3.3	52	40
19	36	66	8.3	61	118	271	53	10	11	7.4	89	413
20	36	80	14	58	15	217	83	8.6	10	7.0	7.8	293
21	27	18	18	151	35	195	66	7.3	6.6	4.8	3.5	110
22	27	31	26	13	1210	166	53	6.6	4.5	35	2.9	87
23	26	35	32	11	3000	171	513	6.0	15	20	5.0	74
24	26	45	51	48	2090	136	1620	5.4	30	6.9	5.7	53
25	23	37	52	39	612	58	1920	6.5	38	6.2	3.3	36
26	12	35	105	37	193	165	682	5.7	13	17	373	96
27	6.3	43	57	62	297	114	302	4.6	9.7	12	460	12
28	5.1	42	36	39	277	1750	207	4.5	7.8	6.5	100	26
29	5.3	43	58	80	---	1990	159	11	7.4	10	47	42
30	4.8	43	40	182	---	1520	142	19	21	12	84	16
31	4.6	---	98	1660	---	180	---	17	---	4.0	72	---
TOTAL	551.7	4821.8	1388.0	9617	11031	12308	7572	2861.2	544.7	290.8	1394.6	1811
MEAN	17.8	161	44.8	310	394	397	252	92.3	18.2	9.38	45.0	60.4
MAX	59	1000	109	2370	3000	1990	1920	617	38	36	460	413
MIN	4.2	4.6	8.3	11	11	28	20	4.5	4.5	2.1	1.8	10
AC-FT	1090	9560	2750	19080	21880	24410	15020	5680	1080	577	2770	3590

CAL YR 1974 TOTAL 52167.64 MEAN 143 MAX 2270 MIN .55 AC-FT 103500
WTR YR 1975 TOTAL 54191.80 MEAN 148 MAX 3000 MIN 1.8 AC-FT 107500

07061500 Black River near Annapolis, Mo.

LOCATION.--Lat 37°20'10", long 90°47'19", in SW¼NW¼ sec.25, T.31 N., R.2 E., Reynolds County, on right bank 0.4 mi (0.6 km) downstream from Mayberry Branch, 7 mi (11.2 km) southwest of Annapolis, 11 mi (17.7 km) downstream from East Fork, and at mile 278.5 (448.1 km).

DRAINAGE AREA.--484 mi² (1,254 km²).

PERIOD OF RECORD.--April 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 569.72 ft (173.651 m) above mean sea level (levels by Corps of Engineers). Prior to Aug. 21, 1942, at site 415 ft (126 m) upstream at same datum.

AVERAGE DISCHARGE.--36 years, 571 ft³/s (16.17 m³/s), 16.02 in/yr (407 mm/yr), 413,700 acre-ft/yr (510 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 24,000 ft³/s (680 m³/s) Feb. 23 (gage height, 14.74 ft or 4.493 m); minimum, 136 ft³/s (3.85 m³/s) Aug. 12, 13 (gage height, 1.21 ft or 0.369 m).
Period of record: Maximum discharge, 49,700 ft³/s (1,410 m³/s) Nov. 2, 1972 (gage height, 21.55 ft or 6.568 m); minimum, 65 ft³/s (1.84 m³/s) Aug. 16, 17, 18, 1963; minimum gage height, 1.21 ft (0.369 m) Aug. 12, 13, 1975.

REMARKS.--Records good. Small regulation from upstream reservoir since Feb. 1963.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	352	217	285	624	4280	1130	1570	1230	276	200	162	278
2	304	215	279	720	2110	968	1250	1000	269	190	165	265
3	271	232	271	869	1500	756	999	841	259	180	164	212
4	251	2500	263	871	1240	721	929	790	255	170	160	197
5	235	2590	263	843	1060	671	743	712	253	140	163	196
6	221	1340	265	735	877	545	680	699	259	170	155	220
7	212	940	278	528	802	633	648	1740	251	200	148	209
8	205	756	283	543	659	536	597	1490	238	190	143	208
9	202	640	287	1270	552	544	547	1440	235	190	140	191
10	197	632	287	4840	756	590	525	1150	247	170	140	191
11	192	2130	283	9540	478	569	504	944	247	170	139	202
12	194	1880	283	2460	436	2350	460	963	235	160	137	253
13	198	1130	280	1570	403	2890	436	884	231	150	137	263
14	221	915	387	1160	381	1820	415	746	223	150	162	249
15	305	751	270	840	371	1430	376	658	232	150	162	232
16	324	653	253	876	478	1520	425	583	235	140	197	230
17	308	590	323	610	362	1800	363	507	230	140	209	229
18	288	602	257	614	364	1740	536	438	220	147	215	275
19	274	482	241	545	465	1580	434	403	210	166	299	408
20	264	460	239	502	319	1340	471	375	240	184	223	1110
21	252	378	241	558	304	1150	432	352	230	203	189	701
22	241	343	244	400	1040	990	398	338	220	210	173	476
23	239	333	244	357	15900	947	667	317	210	194	156	411
24	235	333	270	365	5510	875	2460	308	200	212	159	342
25	230	322	268	368	2650	683	5720	301	190	250	154	283
26	226	298	301	357	1820	737	2730	310	220	226	323	313
27	215	295	312	364	1570	629	1890	284	210	202	813	235
28	210	289	263	336	1330	4610	1400	273	200	194	452	214
29	215	282	291	326	---	8890	1150	281	190	173	298	216
30	218	283	298	472	---	3830	1120	286	180	170	281	203
31	219	---	348	3240	---	2130	---	280	---	161	305	---
TOTAL	7518	22811	8657	37703	48017	49604	30875	20955	6895	5552	6711	9012
MEAN	243	760	279	1216	1715	1600	1029	676	230	179	216	300
MAX	352	2590	387	9540	15900	8890	5720	1740	276	250	813	1110
MIN	192	215	239	326	304	536	363	273	180	140	137	191
CFSM	.50	1.57	.58	2.51	3.54	3.31	2.13	1.40	.48	.37	.45	.62
IN.	.58	1.75	.67	2.90	3.69	3.81	2.37	1.61	.53	.43	.52	.69
AC-FT	14910	45250	17170	74780	95240	98390	61240	41560	13680	11010	13310	17880

CAL YR 1974 TOTAL 268825 MEAN 737 MAX 9720 MIN 136 CFSM 1.52 IN 20.66 AC-FT 533200
WTR YR 1975 TOTAL 254310 MEAN 697 MAX 15900 MIN 137 CFSM 1.44 IN 19.55 AC-FT 504400

PEAK DISCHARGE (BASE, 7,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	0130	13.20	19,200	3-29	0400	10.99	12,900
2-23	0900	14.74	24,000				

07062000 Clearwater Lake near Piedmont, Mo.

LOCATION.--Lat 37°08'00", long 90°46'31", NW¼ sec.6, T.28 N., R.3 E., Wayne county, in intake tower at dam on Black River, 2.3 mi (3.70 km) upstream from Brewer Bay, 4.5 mi (7.24 km) west of Piedmont, and at mile 257.4 (414.16 km).

DRAINAGE AREA.--898 mi² (2,326 km²).

PERIOD OF RECORD.--June 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 100,000 acre-ft (123 hm³) Apr. 4 (elevation, 522.06 ft or 159.124 m), minimum daily, 21,600 acre-ft (26.6 hm³) Feb. 13; minimum elevation, 493.79 ft (150.507 m) Feb. 13.

Period of record: Maximum contents, 399,400 acre-ft (492 hm³) May 28, 1957 (elevation, 565.59 ft or 172.392 m); minimum, since initial filling to conservation pool level, 15,800 acre-ft (19.5 hm³) Jan. 23, 1972 (elevation, 490.00 ft or 149.352 m).

REMARKS.--Lake is formed by earth-fill dam. Storage began June 3, 1948; conservation pool level reached July 4, 1948. Capacity at crest of spillway 413,700 acre-ft (510 hm³) at elevation 567 ft (172.8 m), of which 391,800 acre-ft (483 hm³) is available for flood-control storage, and 21,920 acre-ft (27.0 hm³) is permanent storage which under normal operating conditions will be maintained for purposes of conservation and recreation at elevation 494 ft (150.6 m). Lake used for flood control and incidental recreational purposes. Contents computed from daily readings at 2400.

COOPERATION.--Records furnished by Corps of Engineers.

Capacity table (elevation, in feet, and contents, in acre-ft)

493	20,300	510	57,300
495	23,600	520	91,600
500	32,800	523	104,000

CONTENTS. IN ACRE-FEET. WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23500	22000	38600	22600	34300	74300	92700	62400	29000	27100	26900	26200
2	23500	22200	37400	22900	39300	70900	96000	59700	29000	27400	27100	25900
3	23500	22600	36100	23000	40900	66700	98900	56500	28900	27600	27100	25600
4	23300	29400	34900	23400	40800	62000	98800	53900	28900	27800	26900	25500
5	23300	34300	33600	23700	39200	57500	95900	50400	29000	28000	26600	25700
6	22700	35000	32500	23300	36100	52100	92900	48300	28800	28000	26400	25900
7	22400	35200	31300	22200	33200	47700	89200	49600	28300	27500	26100	26100
8	22200	35200	30200	22000	29900	43600	85700	49600	28100	27100	25800	26200
9	22100	35400	29100	23100	26500	39200	81100	48800	28100	27100	25500	26000
10	22100	35900	28000	29700	24200	35600	76100	47200	27900	27400	25100	25800
11	22000	38300	26800	52600	22800	32300	70700	45100	27900	27600	25000	26400
12	22100	41400	25800	60600	21700	31300	65400	42700	28200	27800	25000	26700
13	22100	42900	24700	62600	21600	34400	59500	39700	28400	27500	25100	26900
14	22300	43600	23800	61900	21800	35500	54500	37300	28500	26900	25200	26800
15	22400	44000	22900	59800	21900	35700	49000	34000	28500	26600	25400	26500
16	22500	44000	22000	57800	22300	35400	43300	31100	28100	26600	25700	26200
17	22600	44000	21800	54800	22300	34800	38000	29100	27800	26800	25900	26000
18	22500	43800	21900	51600	22300	34600	34100	28800	27700	26900	26700	25800
19	22400	43500	21900	48300	22600	36600	31500	28900	28000	27000	26300	25800
20	22300	43100	21900	44700	22400	37300	29500	28800	28200	27200	26200	26700
21	22200	42500	21900	41000	22200	35700	28800	28800	28400	27200	26200	27400
22	22000	42600	21900	37400	23600	33100	28900	28900	28200	26900	26300	27400
23	22000	43300	21900	33500	57600	30000	29300	29000	27900	26900	26400	26900
24	22100	44000	22000	29800	74500	27100	32000	28900	27500	27200	26500	26300
25	22000	44700	22100	26100	80900	23900	48700	28900	27500	27400	26300	25600
26	22000	44800	22100	24400	81100	22900	59600	28900	27800	27500	26200	24900
27	22000	43500	22200	23600	79800	23900	63600	28800	28200	27300	26900	24100
28	22000	42200	22200	22800	77500	41100	65500	29000	28200	27100	27300	23400
29	22100	41100	22100	22100	---	69600	65400	29100	27700	26800	27100	23000
30	22100	39900	22100	22900	---	82600	64500	28900	27200	26700	26700	22700
31	22100	---	22200	24600	---	88500	---	29000	---	26700	26500	---
(†)	494.11	503.31	494.17	495.63	516.23	519.21	512.38	498.06	497.12	496.81	496.70	494.50
(‡)	-13.0	+178.0	-177.0	+24.0	+529.0	+110.0	-240.0	-355.0	-18.0	-5.0	-2.0	-38.0
MAX	23500	44800	38600	62600	81100	88500	98900	62400	29000	28000	27300	27400
MIN	22000	22000	21800	22000	21600	22900	28800	28800	27200	26600	25000	22700

CAL YR 1974..........‡ -1508
WTR YR 1975..........‡ -7.0

† Elevation, in feet, at end of month.
‡ Change in contents, in hundreds of acre-feet.

07062500 Black River at Leeper, Mo.

LOCATION.--Lat 37°04'42", long 90°42'52", in SE¼SW¼ sec.22, T.28 N., R.3 E., Wayne County, on downstream side of pier at right end of left truss of bridge on State Highway 34, 0.5 mi (0.8 km) northwest of Leeper, 2 mi (3.2 km) downstream from McKenzie Creek, 6 mi (9.7 km) downstream from Clearwater Dam, and at mile 251.0 (403.9 km).

DRAINAGE AREA.--957 mi^2 (2,480 km^2).

PERIOD OF RECORD.--June 1921 to current year.

GAGE.--Water-stage recorder. Datum of gage is 428.51 ft (130.610 m) above mean sea level. Prior to Oct. 22, 1937, nonrecording gage, Oct. 22, 1937, to Jan. 21, 1942, water-stage recorder, and Jan. 22 to Apr. 6, 1942, nonrecording gage, all at site 1,900 ft (579 m) downstream at datum 3.85 ft (1.173 m) lower.

AVERAGE DISCHARGE.--54 years, 958 ft^3/s (27.13 m^3/s), 694,100 acre-ft/yr (856 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 5,710 ft^3/s (162 m^3/s) Mar. 28 (gage height, 6.86 ft or 2.091 m); minimum, 263 ft^3/s (7.45 m^3/s) Aug. 1; minimum gage height, 1.06 ft (0.323 m) Nov. 26.

Period of record: Maximum discharge, 78,400 ft^3/s (2,220 m^3/s) May 14, 1933 (gage height, 20.01 ft or 6.009 m, site and datum then in use), from rating curve extended above 55,000 ft^3/s (1,560 m^3/s); minimum, 62 ft^3/s (1.76 m^3/s) Sept. 22-25, 1966 (gage height, 0.42 ft or 1.128 m), result of closure of Clearwater Dam; minimum, prior to regulation, 133 ft^3/s (3.77 m^3/s) Aug. 11, 1934.

Maximum stage known, about 22.3 ft (6.80 m) in March 1904 (present site and datum), from floodmarks (discharge, 125,000 ft^3/s or 3,540 m^3/s, from rating curve extended above 55,000 ft^3/s or 1,560 m^3/s).

REMARKS.--Records good. Flow regulated by Clearwater Lake since June 3, 1948.

REVISIONS (WATER YEARS).--WSP 762: 1933(M). WSP 1007: 1943. WSP 1281: 1922-23, 1927-29(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	581	474	1060	625	881	3210	857	3330	707	592	284	609
2	584	475	1050	752	566	3160	673	3260	701	418	303	603
3	593	518	1040	1020	887	3180	625	3180	693	373	372	600
4	644	962	1040	1020	1790	3270	1190	3120	659	362	447	545
5	648	914	1030	1020	2100	3340	2990	3190	661	358	465	371
6	647	1640	1030	1120	3070	3460	3060	3030	680	447	462	349
7	639	1360	1020	1310	3040	3380	3060	1270	796	670	436	342
8	617	1240	1010	1070	2940	3060	3150	2540	770	662	502	340
9	495	995	1010	838	2790	3050	3700	2670	693	478	476	397
10	482	1020	1000	1180	2490	2890	3740	2970	699	373	467	560
11	480	1070	996	666	1640	2890	3870	2840	719	356	463	463
12	471	1030	988	504	1470	2580	3860	2840	507	362	334	514
13	458	1020	979	852	987	2510	3790	3130	500	439	329	435
14	456	1000	975	1730	779	2360	3770	2680	533	635	314	455
15	518	1000	969	2170	761	2190	3800	2910	646	585	314	580
16	519	1000	940	2140	765	2410	4110	2680	750	420	312	583
17	542	997	711	2200	781	2920	3950	2290	763	348	310	587
18	582	995	548	2530	776	3170	3360	1190	748	342	310	581
19	583	993	507	2440	774	2080	2500	850	708	338	340	619
20	583	984	499	2480	794	2020	2120	868	639	335	490	639
21	583	975	493	2590	793	2970	1320	840	496	381	442	639
22	574	772	460	2540	687	3280	902	785	493	519	353	668
23	465	360	458	2470	916	3190	895	775	704	535	337	780
24	475	342	483	2380	631	3120	907	786	739	372	325	779
25	510	327	510	2310	943	3010	1090	783	700	348	433	776
26	481	399	533	1710	2290	2220	729	780	452	399	471	766
27	472	1030	536	1140	2730	1140	676	767	425	469	474	763
28	472	1060	557	1110	3000	2220	1120	726	430	486	519	751
29	447	1040	609	1090	---	1470	2100	707	670	475	616	597
30	450	1060	614	961	---	784	2500	779	698	449	660	547
31	473	---	626	864	---	681	---	719	---	433	649	---
TOTAL	16516	27072	24283	46892	42071	81215	70494	59285	19371	13757	12997	17218
MEAN	533	902	783	1513	1503	2620	2350	1912	646	444	419	574
MAX	648	1640	1060	2590	3070	3460	4110	3330	796	670	660	780
MIN	447	327	458	504	566	681	625	707	425	335	284	340
AC-FT	32760	53700	48170	93010	83450	161100	139800	117600	38420	27290	25780	34150

CAL YR 1974 TOTAL 531597 MEAN 1456 MAX 3860 MIN 291 AC-FT 1054000
WTR YR 1975 TOTAL 431171 MEAN 1181 MAX 4110 MIN 284 AC-FT 855200

07063000 Black River at Poplar Bluff, Mo.

LOCATION.--Lat 36°45'34", long 90°23'17", in SW¼NW¼ sec.2, T.24 N., R.6 E., Butler County, on right bank at City Light and Water Plant in Poplar Bluff, 1,500 ft (457 m) upstream from bridge on U.S. Highway 60, 4.8 mi (7.7 km) downstream from Indian Creek, and at mile 211.2 (339.8 km).

DRAINAGE AREA.--1,245 mi² (3,225 km²).

PERIOD OF RECORD.--October 1936 to September 1937, October 1939 to current year. Gage-height records collected at site 1,800 ft (549 m) downstream September 1923 to July 1935, and since July 1935 at site 1,500 ft (457 m) downstream are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 317.38 ft (96.737 m) above mean sea level. Prior to Oct. 1, 1940, nonrecording gage at site 1,500 ft (457 m) downstream are at datum 2.00 ft (0.610 m) higher, Oct. 1, 1940 to June 7, 1955, at site 1,500 ft (457 m) downstream at present datum.

AVERAGE DISCHARGE.--37 years, 1,280 ft³/s (36.25 m³/s), 927,400 acre-ft/yr (1,140 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 12,600 ft³/s (357 m³/s) Mar. 29 (gage height, 18.78 ft or 5.724 m); minimum, 416 ft³/s (11.8 m³/s) Sept. 10; minimum gage height, 1.34 ft (0.408 m) Aug. 2.

Period of record: Maximum discharge, 52,600 ft³/s (1,490 m³/s) May 12, 1943, from rating curve extended above 44,000 ft³/s (1,246 m³/s); maximum gage height, 20.80 ft (6.340 m) June 10, 1945, from graph based on gage readings; minimum discharge, 180 ft³/s (5.10 m³/s) Sept. 25, 26, 1966 (gage height, 0.65 ft or 0.198 m), closure of Clearwater Dam for repairs; minimum prior to regulation, 236 ft³/s (6.68 m³/s) Aug. 12, 1944.

Maximum discharge known, 100,000 ft³/s (2,830 m³/s) March 1904; maximum stage known, 21.1 ft (6.43 m) Mar. 12, 1935, present datum (affected by levees constructed since 1904).

REMARKS.--Records good. Flow regulated by Clearwater Lake.

REVISIONS.--WSP 927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	628	560	1340	865	1410	3450	2890	3110	877	780	576	750
2	657	559	1320	864	1690	3620	2130	3520	843	689	463	713
3	661	630	1300	1270	1380	3590	1770	3420	829	528	539	703
4	665	1200	1290	1440	1580	3590	1530	3310	807	472	565	697
5	701	1830	1280	1400	2260	3680	1970	3210	813	452	575	648
6	714	1510	1270	1380	2540	3760	3000	3200	833	490	594	505
7	711	1950	1320	1490	2930	3920	3240	3070	826	562	585	450
8	707	1770	1310	1700	2990	3920	3270	2140	945	735	562	430
9	696	1600	1260	1500	2960	3600	3330	2650	929	755	616	421
10	597	1370	1240	1620	2890	3560	3650	2810	860	615	601	472
11	562	1710	1230	3400	2680	3530	3790	2990	857	503	590	657
12	557	1760	1230	2340	2180	4240	3910	3010	834	497	565	823
13	550	1540	1190	1420	1890	4590	3910	3030	650	469	474	671
14	542	1440	1180	1540	1450	4250	3060	3110	608	517	511	568
15	563	1370	1180	2260	1200	3870	3790	2890	659	702	486	572
16	584	1330	1170	2580	1140	3480	3820	2860	789	692	474	680
17	589	1310	1120	2610	1140	3540	3980	2760	949	558	459	703
18	603	1300	921	2700	1110	4230	3940	2420	938	479	448	712
19	638	1280	769	2830	1680	6170	3680	1700	870	468	437	835
20	651	1260	697	2800	1060	5340	2990	1320	671	457	453	1050
21	650	1240	669	2810	1060	3980	2540	1240	601	448	563	897
22	649	1220	650	2870	1430	3980	1920	1170	578	484	565	851
23	645	1060	627	2850	3780	4280	1530	1060	617	606	475	878
24	571	960	761	2800	4550	4320	1460	1020	805	687	449	989
25	550	830	766	2760	2750	4060	3400	1010	843	580	431	1010
26	576	665	715	2690	2220	3780	4750	995	794	501	514	1010
27	562	679	718	2210	2870	3250	2470	967	581	529	562	1010
28	554	1170	719	1600	3210	6150	1680	937	524	586	568	1000
29	562	1300	765	1470	---	11200	1850	945	528	613	611	986
30	545	1330	828	1390	---	9250	2520	906	721	613	708	830
31	537	---	837	1360	---	4840	---	935	---	587	757	---
TOTAL	18977	37742	31672	62819	59430	139020	88570	67715	22979	17654	16776	22521
MEAN	612	1258	1022	2026	2123	4485	2952	2184	766	569	541	751
MAX	714	1950	1340	3400	4550	11200	4750	3520	949	780	757	1050
MIN	537	559	627	864	1060	3250	1460	906	524	448	431	421
AC-FT	37640	74860	62820	124600	117900	275700	17570	134300	45580	35020	33280	44670

CAL YR 1974 TOTAL 655062 MEAN 1795 MAX 4580 MIN 470 AC-FT 1299000
WTR YR 1975 TOTAL 585875 MEAN 1605 MAX 11200 MIN 421 AC-FT 1162000

07064300 Fudge Hollow near Licking, Mo.

LOCATION.--Lat 37°31'50", long 91°44'13", in NW¼SW¼ sec.29, T.33 N., R.7 W., Dent County, on downstream side of right abutment of bridge on State Highway 32, 8 mi (12.9 km) east of junction of U.S. Highway 63 and State Highway 32 at Licking.

DRAINAGE AREA.--1.72 mi² (4.45 km²).

PERIOD OF RECORD.--December 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,157.59 ft (352.833 m) above mean sea level.

AVERAGE DISCHARGE.--19 years, 0.23 ft³/s (0.006 m³/s), 1.82 in/yr (46 mm/yr), 167 acre-ft/yr (206,000 m³/yr).

EXTREMES.--Current year: Maximum discharge, 74 ft³/s (2.10 m³/s) Jan. 10 (gage height, 3.92 ft or 1.195 m); no flow on many days.

Period of record: Maximum discharge, 580 ft³/s (16.4 m³/s) Sept. 4, 1965 (gage height, 6.46 ft or 1.969 m); no flow at times each year.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	.10	0	.60	.20	.30	.30	0			0
2	0	0	.10	0	.40	.20	.30	.30	0			0
3	0	.20	0	0	.30	.20	.20	.30	0			0
4	0	1.9	0	0	.30	.10	.20	.30	0			0
5	0	.20	0	0	.30	.10	.20	.20	0			0
6	0	.20	0	0	.20	.10	.10	.20	0			0
7	0	.10	0	0	.20	.10	.10	.20	0			0
8	0	.10	0	.10	.20	0	.10	.20	0			0
9	0	.10	0	.10	.10	.10	.10	.20	0			0
10	0	1.5	0	17	.10	.10	.10	.20	0			0
11	0	.40	0	.40	.10	.30	.10	.10	0			0
12	0	.30	0	.30	.10	.50	.10	0	0			0
13	0	.30	0	.20	.10	.30	.10	0	0			0
14	.20	.30	0	.20	.10	.20	.10	0	0			0
15	0	.20	0	.20	.10	.20	.10	0	.10			0
16	0	.20	0	.20	.10	.20	.10	.10	0			0
17	0	.20	0	.10	.10	.20	0	.10	0			0
18	0	.20	0	.10	.10	.20	.10	.10	0			0
19	0	.20	0	.10	0	.20	.10	.10	0			2.5
20	0	.20	0	.10	0	.20	.10	.10	0			.10
21	0	.20	0	0	0	.20	.10	.10	0			0
22	0	.20	0	0	3.5	.20	.10	0	0			0
23	0	.20	0	0	.40	.20	.10	0	0			0
24	0	.10	0	0	.30	.20	.30	0	0			0
25	0	.10	0	0	.20	.20	.20	0	0			0
26	0	.10	0	0	.20	.10	.10	0	0			0
27	0	.10	0	0	.20	.50	0	0	0			0
28	0	.10	0	0	.20	.80	0	0	.20			0
29	.10	.10	0	0	---	.40	5.6	0	0			0
30	0	.10	0	.60	---	.30	7.5	0	0			0
31	0	---	.10	2.2	---	.30	---	0	---			---
TOTAL	.30	8.10	.30	21.90	8.50	7.10	16.60	3.10	.30	0	0	2.60
MEAN	.010	.27	.010	.71	.30	.23	.55	.10	.010	0	0	.087
MAX	.20	1.9	.10	17	3.5	.80	7.5	.30	.20	0	0	2.5
MIN	0	0	0	0	0	0	0	0	0	0	0	0
CFSM	.006	.16	.006	.41	.17	.13	.32	.06	.006	0	0	.05
IN.	.006	.18	.006	.47	.18	.15	.36	.07	.006	0	0	.06
AC-FT	.6	16	.6	43	17	14	33	6.1	.6	0	0	5.2

CAL YR 1974 TOTAL 198.20 MEAN .54 MAX 32 MIN 0 CFSM .31 IN 4.28 AC-FT 393
WTR YR 1975 TOTAL 68.80 MEAN .19 MAX 17 MIN 0 CFSM .11 IN 1.49 AC-FT 136

PEAK DISCHARGE (BASE, 100 FT³/S).--No peak above base.

07064500 Big Creek near Yukon, Mo.

LOCATION.--Lat 37°13'57", long 91°50'59", in SW¼NW¼ sec.5, T.29 N., R.8 W., Texas County, on downstream side of left pier of bridge on State Highway 137, and 3 mi (4.8 km) south of Yukon.

DRAINAGE AREA.--8.36 mi^2 (21.7 km^2).

PERIOD OF RECORD.--June 1949 to September 1975 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1,194.81 ft (364.178 m) above sea level.

AVERAGE DISCHARGE.--26 years, 8.14 ft^3/s (0.231 m^3/s), 13.22 in/yr (336 mm/yr), 5,900 acre-ft/yr (7.27 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 2,650 ft^3/s (75.0 m^3/s) Jan. 10 (gage height, 6.87 ft or 2.094 m); no flow on many days.

Period of record: Maximum discharge, 5,520 ft^3/s (156 m^3/s) Oct. 27, 1970 (gage height, 5.44 ft or 1.658 m in gage well and about 6.5 ft or 1.98 m at outside gage), from rating curve extended above 2,800 ft^3/s (79.3 m^3/s) on basis of contracted opening measurement at gage height, 5.20 ft (1.585 m) in gage well, 6.15 ft (1.875 m) from floodmark outside; maximum gage height, 6.87 ft (2.094 m) Jan. 10, 1975; no flow at times in most years.

Flood of April 1945 reached a stage of about 10.5 ft (3.20 m) and next highest since 1932 reached a stage of about 10.0 ft (3.05 m) in February 1935 from information by local resident.

REMARKS.--Records poor.

REVISIONS (WATER YEARS).--Mo. WRD 1974: 1973.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	2.0	1.2	30	31	22	13	5.7	2.7	.33	.12	.23
2	4.9	1.5	1.2	18	27	18	11	5.0	3.7	.43	.15	.18
3	4.7	31	1.1	17	20	15	9.2	4.8	3.3	.37	.20	.13
4	4.7	180	1.1	11	16	13	8.2	4.4	2.8	.36	.29	.11
5	4.8	32	1.2	8.1	14	12	7.9	4.3	2.7	.35	.24	.10
6	4.6	16	1.7	6.2	11	10	7.4	4.4	2.5	.32	.20	.08
7	4.6	8.6	14	4.9	9.0	21	7.0	4.2	2.7	.30	.18	.08
8	4.7	5.6	10	15	7.3	16	6.7	10	2.5	.28	.16	.06
9	4.8	4.2	6.7	55	6.2	14	6.4	8.7	2.1	.23	.14	.06
10	4.9	86	5.4	339	5.5	14	6.1	5.9	1.8	.22	.11	.10
11	5.1	50	5.1	35	5.1	28	6.0	5.1	1.7	.22	.07	50
12	5.2	23	4.8	19	4.6	63	5.9	4.9	1.5	.23	.05	6.8
13	5.5	14	4.1	14	3.9	36	5.7	4.4	1.2	.22	.04	1.1
14	6.5	8.8	3.7	11	3.7	26	5.7	4.1	1.1	.20	.04	.50
15	8.5	6.1	3.5	9.1	3.6	22	5.6	4.1	1.8	.19	.03	.40
16	8.6	4.8	2.9	7.5	3.4	39	5.4	3.9	1.6	.16	.03	.30
17	8.0	4.3	2.5	6.3	3.2	50	5.4	3.9	1.6	.14	.01	11
18	7.3	3.6	2.1	6.0	3.0	72	7.4	3.9	1.4	.14	0	1.2
19	6.3	3.1	1.8	5.6	2.8	41	8.6	4.6	1.1	.15	0	42
20	5.3	2.7	1.7	4.9	2.6	25	6.8	6.2	.81	.12	0	6.4
21	4.3	2.2	1.4	4.4	2.3	20	6.1	6.5	.69	.12	0	.85
22	3.5	1.8	1.4	4.0	159	16	5.8	5.9	.56	.11	0	.27
23	2.8	1.8	1.3	3.7	75	14	7.0	5.4	.56	.08	0	.17
24	2.5	1.7	1.3	3.8	40	12	18	4.9	.57	.08	0	.11
25	1.9	1.4	1.1	4.4	33	10	48	4.6	.52	.06	0	.30
26	1.7	1.3	1.1	4.2	35	8.8	15	3.5	.44	.05	.02	.32
27	2.3	1.3	1.1	3.9	33	52	9.9	3.3	.42	.08	.02	.20
28	2.2	1.1	1.1	3.7	26	123	8.5	3.3	.39	.12	.03	.18
29	2.5	1.1	4.9	3.7	---	58	6.9	3.3	.33	.11	.15	.18
30	3.6	1.3	6.8	3.7	---	28	6.6	3.1	.31	.08	.50	.18
31	2.5	---	37	65	---	18	---	4.1	---	.06	.34	---
TOTAL	144.2	502.3	134.3	727.1	586.2	916.8	277.2	150.4	45.40	5.91	3.12	123.59
MEAN	4.65	16.7	4.33	23.5	20.9	29.6	9.24	4.85	1.51	.19	.10	4.12
MAX	8.6	180	37	339	159	123	48	10	3.7	.43	.50	50
MIN	1.7	1.1	1.1	3.7	2.3	8.8	5.4	3.1	.31	.05	0	.06
CFSM	.56	2.00	.52	2.81	2.50	3.54	1.11	.58	.18	.02	.01	.49
IN.	.64	2.23	.60	3.24	2.61	4.08	1.23	.67	.20	.03	.01	.55
AC-FT	286	996	266	1440	1160	1820	550	298	90	12	6.2	245

CAL YR 1974 TOTAL 4167.57 MEAN 11.4 MAX 209 MIN .15 CFSM 1.36 IN 18.54 AC-FT 8270
WTR YR 1975 TOTAL 3616.52 MEAN 9.91 MAX 339 MIN 0 CFSM 1.19 IN 16.09 AC-FT 7170

PEAK DISCHARGE (BASE, 500 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	0215	4.95	831	2-22	1500	5.00	863
1-10	0115	6.87	2,650	9-11	1915	4.80	738

07065000 Round Spring at Round Spring, Mo.

LOCATION.--Lat 37°16'57", long 91°24'27", in SW¼NW¼ sec.20, T.30 N., R.4 W., Shannon County, inside spring basin at Round Spring, 1,500 ft (457 m) upstream from Current River on State Highway 19 in Ozark National Scenic Riverways, and 10 mi (16.9 km) northwest of Eminence.

PERIOD OF RECORD.--October 1928 to September 1939, August 1965 to current year. Occasional discharge measurements in 1923-25, 1948, 1954, 1956, 1964-65.

GAGE.--Nonrecording gage. Datum of gage is 665.06 ft (202.710 m) above mean sea level.

AVERAGE DISCHARGE.--21 years (1928-39, 1965-75), 46.8 ft^3/s (1.33 m^3/s), 33,910 acre-ft/yr (41.8 hm^3/yr).

EXTREMES.--Current year: Maximum daily discharge estimated, 320 ft^3/s (9.1 m^3/s) Jan. 12, Mar. 30 (backwater from Current River); minimum observed, 21 ft^3/s (0.59 m^3/s) Sept 9; minimum gage height observed, 1.44 ft (0.439 m) Aug. 3-13, 17-19.

Period of record: Maximum discharge observed, 520 ft^3/s (14.7 m^3/s) May 14, 1933, during period of backwater from Current River; maximum gage height, 15.4 ft (4.69 m), from floodmark, Apr. 17, 1939, backwater from Current River; minimum discharge observed, 10 ft^3/s (0.28 m^3/s) Dec. 10-12, 1937.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	34	33	31	115	179	250	158	42	42	45	29
2	41	34	33	31	104	172	220	133	42	45	44	29
3	41	34	33	31	98	172	190	127	42	45	41	28
4	40	36	35	31	92	172	172	115	42	45	41	28
5	39	280	35	31	87	158	139	110	42	45	41	26
6	39	230	36	31	87	152	121	100	41	41	39	24
7	39	193	36	31	87	139	115	100	41	38	39	24
8	38	150	36	31	71	127	109	87	42	35	39	24
9	37	121	36	31	71	115	98	82	44	32	38	22
10	36	121	36	160	71	109	87	76	44	32	38	23
11	36	219	35	250	71	104	87	71	44	32	38	26
12	36	190	35	320	71	109	87	71	42	32	36	52
13	36	165	35	300	71	121	76	71	41	32	36	40
14	36	152	33	260	71	133	76	71	41	32	38	33
15	34	133	33	230	71	145	76	66	42	32	36	23
16	34	133	33	193	71	158	71	66	41	32	36	23
17	34	127	33	165	66	179	71	66	41	35	35	23
18	34	115	32	152	66	215	71	61	42	35	35	23
19	34	109	32	127	61	215	71	61	42	38	33	23
20	34	92	31	109	54	200	66	61	42	38	33	24
21	34	76	31	92	49	200	66	61	42	39	33	27
22	33	61	31	82	56	193	66	61	44	39	32	28
23	34	47	31	82	200	180	61	61	47	41	32	30
24	34	41	29	82	280	170	66	56	47	41	32	30
25	36	41	29	76	250	160	250	56	45	42	32	24
26	36	38	31	71	230	150	280	51	44	44	32	23
27	34	38	31	66	210	140	240	51	44	44	31	23
28	34	36	32	61	193	180	220	47	44	45	31	22
29	34	36	32	56	---	270	200	47	42	45	31	22
30	34	35	32	53	---	320	172	45	42	36	31	22
31	34	---	32	66	---	280	---	42	---	45	31	---
TOTAL	1118	3125	1022	3332	3024	5317	3874	2331	1281	1199	1109	798
MEAN	36.1	104	33.0	107	108	172	129	75.2	42.7	38.7	35.8	26.6
MAX	43	280	36	320	280	320	280	158	47	45	45	52
MIN	33	34	29	31	49	104	61	42	41	32	31	22
AC-FT	2220	6200	2030	6610	6000	10550	7680	4620	2540	2380	2200	1580

CAL YR 1974 TOTAL 30670 MEAN 84.0 MAX 350 MIN 29 AC-FT 60830
WTR YR 1975 TOTAL 27530 MEAN 75.4 MAX 320 MIN 22 AC-FT 54610

07065500 Alley Spring at Alley, Mo.

LOCATION.--Lat 37°09'14", long 91°26'29", in NW¼SE¼ sec.25, T.29 N., R.5 W., Shannon County, in Ozark National Scenic Riverways, 200 ft (61 m) below spring outlet, 0.6 mi (1.0 km) upstream from Jacks Fork, and 5 mi (8.0 km) west of Eminence.

PERIOD OF RECORD.--October 1928 to September 1939, October 1965 to current year. Occasional discharge measurements 1922, 1925, 1939-41, 1954-55, 1964-65.

GAGE.--Nonrecording gage. Datum of gage is about 665 ft (202.692 m) above mean sea level. Prior to June 26, 1929, at site 230 ft (70 m) downstream and June 26, 1929, to Sept. 30, 1939, at site 200 ft (61 m) downstream; datum of both gages 664.35 ft (202.494 m) above mean sea level.

AVERAGE DISCHARGE.--21 years (1928-39, 1965-75), 135 ft^3/s (3.82 m^3/s), 97,810 acre-ft/yr (121 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 615 ft^3/s (17.4 m^3/s) Mar. 22 (gage height, 3.80 ft or 1.158 m, floodmark); minimum, 105 ft^3/s (2.97 m^3/s) Sept. 11, 15-17; minimum observed gage height, 1.68 ft (0.512 m) Dec. 19, 21, 23, 24, 26, 27, 30, 31, Jan. 6.

Period of record: Maximum discharge, 2,750 ft^3/s (77.9 m^3/s) Apr. 22, 1974 (gage height, 7.67 ft or 2.338 m, floodmark); minimum discharge, 54 ft^3/s (1.53 m^3/s) Oct. 15-18, 1934.

REMARKS.--Records fair. Occasional runoff from drainage area of 15.8 mi^2 (40.9 km^2) included in records.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	125	120	114	400	310	380	228	160	186	145	125
2	140	220	120	114	250	280	360	215	165	180	145	125
3	148	280	120	114	198	260	340	203	160	180	145	122
4	143	325	120	114	198	240	315	191	160	181	143	122
5	138	350	120	114	198	220	290	180	155	181	143	122
6	134	300	120	114	186	210	278	180	160	181	143	120
7	130	250	120	122	174	210	265	210	160	177	141	114
8	130	280	120	141	170	210	255	228	160	177	141	114
9	129	310	120	167	170	210	240	225	160	170	141	109
10	129	320	130	515	162	210	230	213	160	172	138	110
11	129	338	130	450	162	210	220	189	160	167	134	105
12	129	310	140	400	160	298	215	213	160	165	134	120
13	129	280	160	372	160	298	210	200	153	162	132	114
14	130	238	141	360	150	300	215	201	153	155	132	110
15	129	210	136	332	140	298	210	198	157	153	132	105
16	129	177	129	318	140	322	200	177	153	155	129	105
17	130	172	122	272	140	348	196	177	153	155	129	105
18	127	162	120	260	138	348	191	169	153	155	130	130
19	127	153	114	240	138	372	191	170	153	153	130	172
20	125	143	114	210	138	375	186	170	153	153	130	180
21	125	134	114	198	138	478	186	165	153	153	129	170
22	125	134	114	174	138	540	180	153	148	150	129	172
23	125	134	114	174	300	430	180	160	230	150	127	172
24	125	134	114	162	448	360	196	160	255	150	127	155
25	125	125	114	160	422	300	428	165	260	150	127	145
26	125	120	114	160	398	252	440	160	240	145	132	136
27	125	120	114	155	348	252	352	160	215	145	125	132
28	125	120	114	150	330	330	310	160	215	150	125	132
29	125	120	114	150	---	430	270	160	201	145	125	127
30	125	120	114	145	---	490	240	153	186	145	125	127
31	125	---	114	145	---	415	---	153	---	146	129	---
TOTAL	4020	6206	3770	6616	6094	9806	7769	5686	5251	4987	4137	3897
MEAN	130	207	122	213	218	316	259	183	175	161	133	130
MAX	148	350	160	515	448	540	440	228	260	186	145	180
MIN	125	120	114	114	138	210	180	153	148	145	125	105
AC-FT	7970	12310	7480	13120	12090	19450	15410	11280	10420	9890	8210	7730

CAL YR 1974 TOTAL 74182 MEAN 203 MAX 1000 MIN 114 AC-FT 147100
WTR YR 1975 TOTAL 68237 MEAN 187 MAX 540 MIN 105 AC-FT 135300

07066000 Jacks Fork at Eminence, Mo.

LOCATION.--Lat 37°09'18", long 91°21'31", in SW¼NW¼ sec.26, T.29 N., R.4 W., Shannon County, on left bank 50 ft (15 m) upstream from bridge on State Highway 19, at Eminence, 1.5 mi (2.4 km) downstream from Mahans Creek, and 8.0 mi (12.9 km) upstream from mouth.

DRAINAGE AREA.--398 mi^2 (1,031 km^2).

PERIOD OF RECORD.--October 1921 to current year. Monthly discharge only for October 1921, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 617.87 ft (188.327 m) above mean sea level. Prior to Jan. 27, 1934, nonrecording gage at site 1,350 ft (411 m) upstream at datum 2.11 ft (0.643 m) higher. Jan. 27, 1934, to Jan. 10, 1935, nonrecording gage at site 75 ft (22.239 m) downstream at datum 0.04 ft (0.012 m) lower. Jan. 11, 1935, to July 9, 1964, nonrecording gage at site 50 ft (15 m) downstream at present datum.

AVERAGE DISCHARGE.--54 years, 445 ft^3/s (12.6 m^3/s), 15.18 in/yr (386 mm/yr), 322,400 acre-ft/yr (398 hm^3/s).

EXTREMES.--Current year: Maximum discharge, 22,900 ft^3/s (649 m^3/s) Jan. 10 (gage height, 13.37 ft or 4.075 m); minimum daily estimated, 165 ft^3/s (4.67 m^3/s) Aug. 21-25.

Period of record: Maximum discharge observed, 40,000 ft^3/s (1,130 m^3/s) June 13, 1928 (gage height, about 17.2 ft or 5.24 m, present site and datum), from rating curve extended above 21,000 ft^3/s (595 m^3/s); minimum, 0.64 ft^3/s (0.018 m^3/s) Aug. 28, 1936; minimum gage height, 0.64 ft (0.195 m) Sept. 18, 1971.

Floods in 1895 and March 1904 reached a stage of about 25 ft (7.6 m) present site and datum, from information by local residents.

REMARKS.--Records good except periods of no gage-height record, which are fair.

REVISIONS (WATER YEARS).--WSP 787: 1928(M), 1934. WSP 877: 1938. WSP 927: Drainage area. WSP 1281: 1929.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	263	222	300	328	359	1060	1690	729	320	267	180	220
2	255	222	290	434	535	959	1470	653	316	255	180	210
3	244	241	280	457	620	811	1310	609	313	246	180	200
4	241	1290	280	478	615	728	1160	581	308	241	180	190
5	240	1820	280	468	575	678	1050	547	310	236	180	190
6	234	1060	280	445	540	651	969	569	314	232	180	190
7	231	800	280	427	493	676	906	696	337	233	175	190
8	225	584	290	438	455	776	864	557	324	223	175	190
9	225	560	300	490	430	792	828	509	316	217	175	186
10	222	488	290	8530	411	781	786	502	312	213	170	186
11	222	2640	280	5760	395	787	742	476	307	206	170	215
12	220	1480	270	1740	378	1110	696	514	298	204	170	293
13	220	1060	260	1280	369	1580	668	469	292	202	170	432
14	230	856	250	1080	359	1600	647	436	300	196	180	312
15	241	721	240	868	340	1330	628	422	408	193	181	267
16	236	631	240	760	340	1230	602	405	383	188	180	244
17	236	567	230	692	330	1490	588	391	366	183	175	246
18	230	526	230	628	324	1960	591	381	339	179	170	1210
19	225	494	225	573	318	3300	600	375	320	183	170	1470
20	222	467	228	530	313	2330	576	369	302	183	170	3380
21	217	442	225	484	310	1860	537	368	287	184	165	897
22	214	421	222	450	930	1600	516	362	289	188	165	573
23	214	404	220	423	8300	1390	509	354	931	189	165	435
24	214	388	217	401	3170	1270	558	344	787	198	165	367
25	214	369	214	395	1690	1110	2050	350	471	196	165	328
26	214	355	211	393	1470	992	1880	354	377	193	180	302
27	214	345	209	373	1290	1220	1300	336	336	191	170	284
28	214	337	209	353	1160	4520	1080	330	313	191	170	269
29	220	328	211	341	---	4980	930	330	295	188	170	253
30	222	310	217	328	---	2730	819	330	279	186	200	243
31	222	---	239	346	---	2030	---	325	---	183	230	---
TOTAL	7041	20428	7717	30693	26819	48331	27550	13973	10850	6367	5456	13972
MEAN	227	681	249	990	958	1559	918	451	362	205	176	466
MAX	263	2640	300	8530	8300	4980	2050	729	931	247	230	3380
MIN	214	222	209	328	310	651	509	325	279	179	165	186
CFSM	.57	1.71	.63	2.49	2.41	3.92	2.31	1.13	.91	.52	.44	1.17
IN.	.66	1.91	.72	2.87	2.51	4.52	2.58	1.31	1.01	.60	.51	1.31
AC-FT	13970	40520	15310	60880	53200	95860	54650	27720	21520	12630	10820	27710

CAL YR 1974 TOTAL 245596 MEAN 673 MAX 19600 MIN 209 CFSM 1.69 IN 22.96 AC-FT 487100
WTR YR 1975 TOTAL 219197 MEAN 601 MAX 8530 MIN 165 CFSM 1.51 IN 20.49 AC-FT 434800

PEAK DISCHARGE (BASE, 3,900 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-10	1900	13.37	22,900	3-29	0300	7.73	7,200
2-23	1030	10.35	13,400	9-20	0215	7.39	6,560
3-19	0840	5.84	3,980				

07066500 Current River near Eminence, Mo.

LOCATION.--Lat 37°11'02", long 91°15'30", in SW¼NE¼ sec.15, T.29 N., R.3 W., Shannon County, on right bank 1 mi (1.6 km) downstream from Jacks Fork, 8 mi (12.9 km) northeast of Eminence, and at mile 123.0 (197.9 km).

DRAINAGE AREA.--1,272 mi² (3,294 km²).

PERIOD OF RECORD.--August 1921 to September 1975 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 568.82 ft (173.376 m) above mean sea level. Prior to Oct. 20, 1921, nonrecording gage at site 1,200 ft (366 m) upstream at different datum. Oct. 20, 1921, to Dec. 8, 1934, nonrecording gage at site 30 ft (9 m) upstream at datum 0.06 ft (0.018 m) higher than present datum.

AVERAGE DISCHARGE.--54 years, 1,456 ft³/s (41.23 m³/s), 15.55 in/yr (395 mm/yr), 1,055,000 acre-ft/yr (1,300 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 50,900 ft³/s (1,440 m³/s) Jan. 11 (gage height, 21.50 ft or 6.553 m); minimum, 664 ft³/s (18.8 m³/s) Aug. 23, 24, 25, Sept. 9 (gage height, 0.59 ft or 0.180 m).

Period of record: Maximum discharge, 88,500 ft³/s (2,510 m³/s) Feb. 10, 1966 (gage height, 29.69 ft or 9.050 m) from rating curve extended above 50,000 ft³/s (1,420 m³/s); minimum, 324 ft³/s (9.18 m³/s), Oct. 7, 8, 1956; minimum gage height, 0.22 ft (0.067 m) Sept. 15, 16, 1971.

Maximum stage known, 37.5 ft (11.43 m) March 1904, present datum, from floodmark.

REMARKS.--Records good.

REVISIONS.--WSP 927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1180	807	961	1230	3580	3390	4480	3280	1290	1080	835	902
2	1090	821	938	1520	3210	3040	3910	2770	1280	1060	842	808
3	1020	934	917	1600	2960	2720	3480	2550	1270	1040	827	759
4	981	4550	894	1580	2720	2460	3080	2410	1250	1020	812	732
5	969	5130	888	1500	2550	2300	2810	2260	1260	1000	791	720
6	951	2820	898	1420	2360	2180	2590	2160	1260	990	779	725
7	935	2120	926	1360	2150	2290	2440	2600	1350	970	766	704
8	918	1750	934	1480	1990	2330	2340	2190	1300	960	751	691
9	911	1530	958	1740	1870	2250	2260	2040	1250	950	743	684
10	909	1930	949	11900	1760	2280	2150	1970	1240	940	743	697
11	899	4480	952	25900	1720	2420	2050	1910	1220	930	737	873
12	898	3780	946	6500	1670	4270	1970	1960	1200	920	733	1180
13	902	2760	934	4520	1580	5090	1900	1830	1170	900	722	1230
14	957	2260	914	3760	1520	4450	1870	1740	1180	890	743	1030
15	1020	1940	903	3250	1480	3860	1820	1680	1400	890	747	916
16	972	1720	897	2850	1460	3730	1790	1630	1370	890	749	858
17	938	1570	889	2530	1430	4320	1760	1570	1410	890	746	887
18	911	1470	876	2320	1380	5190	1780	1540	1320	880	726	1910
19	887	1400	871	2150	1320	6630	1830	1510	1240	880	717	2210
20	872	1320	858	1990	1280	4960	1730	1490	1170	900	706	4440
21	855	1240	844	1850	1260	4060	1650	1530	1140	960	696	2120
22	836	1190	833	1730	4240	3580	1610	1480	1190	900	691	1530
23	828	1160	830	1630	19100	3170	1680	1420	2160	890	679	1260
24	831	1130	829	1590	8760	2940	2020	1390	1940	910	677	1130
25	821	1070	803	1590	5640	2630	8630	1420	1540	950	689	1030
26	813	1030	794	1550	4570	2380	6360	1410	1350	890	814	960
27	805	1010	798	1480	4070	3000	4350	1350	1260	870	746	916
28	810	989	795	1430	3730	9960	3600	1320	1200	850	738	880
29	846	973	864	1380	---	12700	3140	1330	1160	840	765	858
30	828	981	901	1340	---	7150	3240	1320	1100	830	794	829
31	820	---	969	2780	---	5390	---	1310	---	820	1010	---
TOTAL	28213	55867	27563	99450	91360	126920	84320	56370	39470	28690	23494	34469
MEAN	910	1862	889	3208	3263	4094	2811	1818	1316	925	758	1149
MAX	1180	5130	969	25900	19100	12700	8630	3280	2160	1080	1010	4440
MIN	805	807	794	1230	1260	2180	1610	1310	1100	820	677	684
CFSM	.72	1.46	.70	2.52	2.57	3.22	2.21	1.43	1.03	.73	.60	.90
IN.	.83	1.63	.81	2.91	2.67	3.71	2.47	1.65	1.15	.84	.69	1.01
AC-FT	55960	110800	54670	197300	181200	251700	167200	111800	78290	56910	46600	68370

CAL YR 1974 TOTAL 817515 MEAN 2240 MAX 32700 MIN 794 CFSM 1.76 IN 23.91 AC-FT 1622000
WTR YR 1975 TOTAL 696186 MEAN 1907 MAX 25900 MIN 677 CFSM 1.50 IN 20.36 AC-FT 1381000

PEAK DISCHARGE (BASE, 12,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	0045	21.50	50,900	3-29	0100	11.07	15,600
2-23	1400	14.64	25,800				

07067000 Current River at Van Buren, Mo.

LOCATION.--Lat 36°59'29", long 91°00'53", in NE¼NW¼ sec.25, T.27 N., R.1 W., Carter County, near right bank on downstream side of pier of bridge on U.S. Highway 60 in Van Buren, 0.4 mi (0.6 km) downstream from Pike Creek, 4.7 mi (7.6 km) upstream from Big Spring, and at mile 90.4 (145.5 km).

DRAINAGE AREA.--1,667 mi² (4,318 km²).

PERIOD OF RECORD.--October 1912 to current year. Prior to July 1921 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 442.78 ft (134.959 m) above mean sea level. Prior to Sept. 1, 1926, nonrecording gage at site 100 ft (30 m) downstream at different datum. Sept. 1, 1926, to Oct. 19, 1934, nonrecording gage and Oct. 20, 1934, to Sept. 30, 1939, water-stage recorder, at present site at datum 3.00 ft (0.914 m) higher, set to read same as gage 100 ft (30 m) downstream.

AVERAGE DISCHARGE.--63 years, 1,873 ft³/s (53.04 m³/s), 15.25 in/yr (387 mm/yr), 1,357,000 acre-ft/yr (1,670 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 48,000 ft³/s (1,360 m³/s) Jan. 11 (gage height, 18.58 ft or 5.663 m); minimum, 891 ft³/s (25.2 m³/s) Aug. 24, 25; minimum gage height, 2.27 ft (0.692 m) Sept. 10.

Period of record: Maximum discharge, 125,000 ft³/s (3,540 m³/s) Aug. 21, 1915 (gage height, 25.9 ft or 7.89 m, present datum), from rating curve extended above 62,000 ft³/s (1,760 m³/s); minimum, 473 ft³/s (13.4 m³/s) Oct. 7, 8, 1956; minimum gage height, 1.55 ft (0.472 m) Sept. 16, 1971.

Maximum stage known, 29.0 ft (8.84 m) Mar. 26, 1904, present datum, from floodmarks.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 877: 1938. WSP 897: 1939. WSP 927: Drainage area. WSP 1281: 1929.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1520	1150	1500	1540	4420	4390	6240	4430	1800	1410	1000	1210
2	1420	1140	1450	1840	4180	4020	5410	4110	1760	1370	1050	1100
3	1320	1240	1410	2120	3840	3680	4850	3580	1750	1350	1060	1030
4	1280	4400	1370	2150	3570	3390	4380	3390	1710	1330	1030	986
5	1240	6680	1330	2080	3360	3170	4020	3210	1750	1300	1000	969
6	1210	4650	1330	1980	3150	3010	3730	3070	1730	1290	981	970
7	1180	3490	1340	1900	2890	3080	3530	3390	1750	1300	963	953
8	1160	2950	1330	1880	2680	3150	3390	3160	1790	1280	949	931
9	1140	2620	1330	2270	2510	3120	3270	2970	1720	1250	940	916
10	1140	2680	1320	5750	2400	3140	3130	2850	1690	1220	944	940
11	1120	4870	1310	34700	2290	3080	2980	2750	1660	1220	943	1040
12	1110	5790	1300	10500	2180	3610	2860	2930	1600	1210	936	1540
13	1130	4350	1260	5690	2090	6330	2740	2700	1570	1210	932	1430
14	1170	3600	1220	4580	2050	5950	2690	2550	1550	1170	942	1370
15	1310	3130	1210	4000	2020	5160	2680	2450	1750	1150	958	1230
16	1260	2800	1170	3570	1980	4850	2570	2370	1780	1130	979	1150
17	1210	2570	1150	3230	1950	5320	2540	2290	1840	1140	974	1130
18	1180	2390	1140	2980	1900	6390	2520	2210	1750	1120	958	1520
19	1140	2260	1140	2740	1850	7920	2640	2170	1640	1120	947	2350
20	1120	2150	1120	2550	1800	6950	2500	2120	1560	1180	932	3850
21	1100	2020	1110	2390	1770	5760	2430	2120	1500	1230	920	2860
22	1080	1940	1110	2240	2760	4910	2330	2090	1480	1160	910	1990
23	1070	1870	1110	2130	16700	4430	2380	2020	1700	1130	909	1640
24	1060	1830	1120	2070	16300	4110	2670	1970	2510	1150	902	1450
25	1060	1740	1100	2080	7670	3780	8340	1960	2020	1170	909	1350
26	1060	1680	1080	2020	5950	3460	9220	1980	1790	1110	1030	1270
27	1060	1620	1090	1960	5190	3520	6010	1900	1640	1070	1040	1210
28	1060	1570	1080	1920	4730	11400	4850	1870	1550	1050	983	1170
29	1090	1540	1170	1870	---	21100	4320	1870	1490	1040	976	1140
30	1100	1530	1200	1810	---	11200	4280	1860	1440	1010	1030	1110
31	1170	---	1360	2370	---	7560	---	1830	---	996	1100	---
TOTAL	36270	82250	38340	120910	114180	170940	115500	80170	51270	36866	30127	41805
MEAN	1170	2742	1237	3900	4078	5514	3850	2586	1709	1189	972	1394
MAX	1520	6680	1500	34700	16700	21100	9220	4430	2510	1410	1100	3850
MIN	1060	1140	1080	1540	1770	3010	2330	1830	1440	996	902	916
CFSM	.70	1.64	.74	2.34	2.45	3.31	2.31	1.55	1.03	.71	.58	.84
IN.	.81	1.84	.86	2.70	2.55	3.81	2.58	1.79	1.14	.82	.67	.93
AC-FT	71940	163100	76050	239800	226500	339100	229100	159000	101700	73120	59760	82920

CAL YR 1974 TOTAL 1071240 MEAN 2935 MAX 29300 MIN 1060 CFSM 1.76 IN 23.91 AC-FT 2125000
WTR YR 1975 TOTAL 918628 MEAN 2517 MAX 34700 MIN 902 CFSM 1.51 IN 20.50 AC-FT 1822000

PEAK DISCHARGE (BASE, 14,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	1430	18.58	48,000	3-29	0245	13.16	23,000
2-24	0245	14.04	26,200				

07067500 Big Spring near Van Buren, Mo.

LOCATION.--Lat 36°57'05", long 90°59'36", in SW¼NE¼ sec.6, T.26 N., R.1 E., Carter County, on right bank 400 ft (122 m) downstream from spring outlet, 0.4 mi (0.6 km) upstream from Current River, and 3.5 mi (5.6 km) southeast of Van Buren.

PERIOD OF RECORD.--October 1921 to current year. Prior to Oct. 1, 1923, published as "near Chicopee". Monthly discharge only for some periods, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 429.08 ft (130.784 m) above mean sea level. Prior to Feb. 19, 1971, nonrecording gage, prior to Oct. 1, 1934 at datum 1.0 ft (0.3 m) higher.

AVERAGE DISCHARGE.--54 years, 435 ft³/s (12.3 m³/s), 315,200 acre-ft/yr (389 hm³/yr).

EXTREMES.--Current year: Maximum daily discharge, 1,000 ft³/s (28.3 m³/s) Jan. 11, during period of backwater from Current River; minimum, 376 ft³/s (10.6 m³/s) Sept. 9, 10; minimum gage height, 1.13 ft (0.344 m) Nov. 1, 2.

Period of record: Maximum discharge, 1,300 ft³/s (36.8 m³/s), estimated, sometime in June 1928, during period of backwater from Current River; minimum, 236 ft³/s (6.68 m³/s) Oct. 6, 1956.

REMARKS.--Records good except those for periods of backwater from Current River, and no gage height record, which are poor.

REVISIONS (WATER YEARS).--WSP 1311: 1922-23, 1928(M) 1929.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	447	400	460	410	510	700	780	700	544	506	429	385
2	439	398	460	410	520	700	760	700	540	503	429	385
3	438	406	450	410	540	700	740	700	539	503	427	382
4	435	600	450	420	530	700	720	680	536	506	423	380
5	435	800	450	440	520	700	710	670	539	500	419	380
6	431	700	440	440	520	680	710	670	537	500	419	380
7	427	500	440	440	520	660	710	663	535	500	416	380
8	427	500	430	440	510	640	710	660	537	490	415	380
9	426	500	430	440	510	640	710	660	536	490	413	376
10	426	500	430	500	500	640	710	656	535	490	413	376
11	423	700	420	1000	500	640	707	642	535	480	413	382
12	423	630	420	700	500	660	687	640	531	480	413	423
13	421	620	420	600	490	700	671	640	531	480	411	424
14	416	610	410	580	490	800	660	639	533	470	412	415
15	416	600	410	580	480	800	647	625	534	470	413	408
16	416	590	410	570	480	900	638	614	537	470	410	401
17	413	552	410	570	480	900	629	604	539	460	408	411
18	411	546	410	560	470	900	625	595	539	460	407	446
19	408	526	410	550	470	900	621	594	536	460	406	507
20	407	513	410	540	470	900	605	587	532	450	401	500
21	404	499	410	540	470	850	595	581	529	450	397	500
22	401	489	410	520	500	800	585	575	529	450	397	490
23	401	486	410	520	800	750	581	570	529	440	397	480
24	401	480	410	510	750	720	590	564	546	440	395	473
25	401	480	410	510	700	700	700	565	524	440	394	463
26	401	470	410	510	700	700	900	561	519	430	394	452
27	401	475	410	510	700	700	750	557	513	430	392	448
28	401	470	410	506	700	750	700	553	509	430	391	441
29	401	475	410	500	---	900	700	552	509	430	390	435
30	401	460	410	500	---	850	700	549	506	429	389	429
31	401	---	410	500	---	800	---	545	---	427	387	---
TOTAL	12899	15975	13080	16226	15330	23380	20551	19111	15939	14464	12620	12732
MEAN	416	533	422	523	548	754	685	616	531	467	407	424
MAX	447	800	460	1000	800	900	900	700	546	506	429	507
MIN	401	398	410	410	470	640	581	545	506	427	387	376
AC-FT	25590	31690	25940	32180	30410	46370	40760	37910	31610	28690	25030	25250

CAL YR 1974 TOTAL 203672 MEAN 558 MAX 950 MIN 398 AC-FT 404000
WTR YR 1975 TOTAL 192307 MEAN 527 MAX 1000 MIN 376 AC-FT 381400

07068000 Current River at Doniphan, Mo.

LOCATION.--Lat 36°37'19", long 90°50'51", in NW¼NW¼ sec.27, T.23 N., R.2 E., Ripley County, on right bank 0.5 mi (0.8 km) upstream from U.S. Highway 160, 1 mi (1.6 km) west of Doniphan, 2.5 mi (4.0 km) upstream from Brian Creek, and at mile 51.3 (82.5 km).

DRAINAGE AREA.--2,038 mi² (5,278 km²).

PERIOD OF RECORD.--October 1918 to current year. Prior to July 1921 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 321.21 ft (97.905 m), above mean sea level. July 3, 1936, to Sept. 30, 1971, datum is 1.00 ft (0.305 m) higher. Prior to July 3, 1936, nonrecording gages at several sites 0.5 mi (0.8 km) downstream at various datums.

AVERAGE DISCHARGE.--57 years, 2,722 ft³/s (77.1 m³/s), 18.13 in/yr (461 mm/yr), 1,972,000 acre-ft/yr (2,430 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 32,600 ft³/s (923 m³/s) Jan. 12 (gage height, 15.23 ft or 4.642 m); minimum, 1,480 ft³/s (41.9 m³/s) Sept. 10 (gage height, 1.91 ft or 0.582 m).

Period of record: Maximum discharge, 94,400 ft³/s (2,670 m³/s) Mar. 12, 1935 (gage height, 23.0 ft or 7.01 m, present site and datum), from rating curve extended above 60,000 ft³/s (1,700 m³/s); minimum, 852 ft³/s (24.1 m³/s) Oct. 8-19, 1956.

Maximum stage known, 25.9 ft (7.89 m) in March 1904, from floodmarks, present site and datum (discharge, 130,000 ft³/s or 3,680 m³/s) from rating curve extended above 60,000 ft³/s (1,700 m³/s).

REMARKS.--Records good. Records of water temperature are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 877: 1937-38(M). WSP 927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2170	1980	2260	2040	4130	6300	8900	6030	2650	2090	1760	1730
2	2080	1980	2220	2210	5050	5920	7850	5660	2590	2060	1770	1720
3	2010	2130	2180	2540	4860	5550	7190	5190	2550	2020	1830	1630
4	1950	3820	2140	2700	4600	5220	6630	4890	2520	2000	1760	1580
5	1900	6720	2100	2690	4390	4960	6160	4640	2530	1980	1730	1560
6	1870	6440	2090	2610	4200	4770	5810	4490	2530	1970	1710	1550
7	1830	4620	2100	2540	3970	4710	5500	5410	2450	1960	1670	1530
8	1820	3870	2090	2460	3760	4810	5290	4770	2540	1960	1660	1510
9	1810	3430	2070	2580	3570	4830	5100	4440	2550	1940	1650	1490
10	1800	3360	2070	3880	3430	4880	4910	4280	2460	1910	1640	1570
11	1800	4480	2070	9860	3330	4880	4730	4080	2390	1900	1630	1700
12	1800	6170	2060	26700	3280	5900	4550	4540	2350	1900	1630	2170
13	1810	5550	2030	9460	3190	7840	4420	4330	2290	1890	1630	2170
14	1870	4620	2010	6120	3120	8200	4330	4020	2250	1890	1650	2090
15	1950	4060	1990	5250	3070	7530	4220	3810	2320	1850	1680	1970
16	1980	3670	1970	4690	3060	7060	4140	3640	2460	1830	1690	1860
17	1940	3390	1940	4270	3040	7210	4070	3490	2460	1820	1660	1850
18	1920	3190	1920	3970	3000	8440	4060	3380	2470	1850	1650	1890
19	1890	3040	1920	3700	2960	10400	4090	3270	2340	1830	1620	3180
20	1880	2900	1900	3440	2920	9780	4020	3190	2250	1850	1600	3600
21	1870	2790	1880	3270	2890	8110	3890	3110	2190	1890	1590	4670
22	1860	2680	1840	3120	3260	7140	3780	3100	2160	1910	1580	3250
23	1860	2620	1830	2970	8990	6450	3730	3020	2180	1870	1560	2670
24	1860	2640	1860	2850	18000	5970	3840	2940	2700	1940	1550	2360
25	1870	2550	1830	2760	14100	5510	7360	2890	2880	1960	1540	2100
26	1880	2460	1810	2740	8410	5040	11100	2870	2550	1900	1590	2070
27	1890	2400	1780	2690	7320	5020	8740	2830	2380	1840	1670	1990
28	1900	2340	1770	2610	6720	11000	6940	2770	2260	1810	1620	1920
29	1950	2310	1800	2580	---	22200	6150	2790	2190	1790	1590	1870
30	1960	2290	1880	2550	---	19800	5910	2730	2140	1770	1600	1840
31	1980	---	1970	2650	---	11400	---	2700	---	1750	1630	---
TOTAL	58960	104500	61380	134500	142620	236830	167390	119300	72580	58930	51140	63170
MEAN	1902	3483	1980	4339	5094	7640	5580	3848	2419	1901	1650	2106
MAX	2170	6720	2260	26700	18000	22200	11100	6030	2880	2090	1830	4670
MIN	1800	1980	1770	2040	2890	4710	3730	2700	2140	1750	1540	1490
CFSM	.93	1.71	.97	2.13	2.50	3.75	2.74	1.89	1.19	.93	.81	1.03
IN.	1.08	1.91	1.12	2.46	2.60	4.32	3.06	2.18	1.32	1.08	.93	1.15
AC-FT	116900	207300	121700	266800	282900	469800	332000	236600	144000	116900	101400	125300

CAL YR 1974 TOTAL 1434080 MEAN 3929 MAX 20700 MIN 1770 CFSM 1.93 IN 26.18 AC-FT 2844000
WTR YR 1975 TOTAL 1271300 MEAN 3483 MAX 26700 MIN 1490 CFSM 1.71 IN 23.21 AC-FT 2522000

PEAK DISCHARGE (BASE, 14,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-12	1315	15.23	32,600	3-29	2015	12.71	23,400
2-24	2245	11.93	21,200				

07070500 Eleven Point River near Thomasville, Mo.

LOCATION.--Lat 36°47'05", long 91°29'31", NE¼NE¼ sec.3, T.24 N., R.5 W., Oregon County, on left bank attached to bluff at end of Grandpappy Ridge, 500 ft (152 m) upstream from Posy Spring, 1.5 mi (2.4 km) downstream from Barren Fork, 2.5 mi (4.0 km) east of Thomasville, and at mile 86.5 (139 km).

DRAINAGE AREA.--361 mi² (935 km²).

PERIOD OF RECORD.--October 1950 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 610 ft (185.9 m) from topographic map.

AVERAGE DISCHARGE.--25 years, 101 ft³/s (2.86 m³/s), 3.80 in/yr (97 mm/yr), 73,170 acre-ft/yr (90 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,100 ft³/s (173 m³/s) Apr. 23 (gage height, 12.86 ft or 3.920 m); minimum, 18 ft³/s (0.510 m³/s) Sept. 6, 7 (gage height, 1.38 ft or 0.421 m).

Period of record: Maximum discharge, 31,000 ft³/s (878 m³/s) Feb. 10, 1966 (gage height, 21.65 ft or 6.599 m); from rating curve extended above 2,400 ft³/s (68.0 m³/s) on basis of slope-area measurements at gage heights 13.8 ft (4.21 m) and 17.95 ft (5.471 m); minimum, 2.7 ft³/s (0.076 m³/s) Sept. 13, 14, 15, 16, 1954; minimum gage height, 1.13 ft (0.344 m) Feb. 4, 5, 1964.

REMARKS.--Records poor.

REVISIONS (WATER YEARS).--WSP 1341: 1951-52(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	27	40	33	165	290	600	275	97	94	23	20
2	32	26	40	37	239	257	500	255	93	88	26	20
3	32	50	40	56	238	229	400	240	91	83	30	19
4	31	400	40	56	223	204	360	224	87	79	26	21
5	30	600	37	54	209	188	320	209	127	77	24	19
6	29	300	38	52	182	179	290	216	97	73	23	18
7	28	200	39	49	161	168	260	204	88	73	22	291
8	28	150	36	55	150	152	250	187	85	68	22	809
9	28	100	35	51	135	158	240	178	88	64	21	290
10	28	150	34	1180	126	155	230	171	85	62	21	221
11	27	700	33	1220	123	211	220	161	81	58	21	178
12	27	400	32	361	118	413	210	157	76	58	21	165
13	27	200	30	257	103	500	200	153	72	56	22	164
14	28	170	30	209	98	1000	200	148	71	52	21	1380
15	38	150	29	180	94	800	190	142	102	49	22	568
16	30	160	29	157	91	500	187	138	84	47	30	312
17	28	120	28	140	86	400	186	134	91	45	26	234
18	28	110	28	136	78	600	191	132	83	47	23	187
19	27	100	27	124	72	1200	173	137	75	43	22	159
20	27	90	26	111	67	800	154	140	71	41	21	137
21	27	80	24	102	63	500	152	135	69	39	21	119
22	26	70	23	89	1130	400	164	125	66	36	20	107
23	26	65	23	81	2270	300	2050	120	739	34	20	98
24	26	60	26	79	890	280	746	115	462	32	20	92
25	26	55	23	78	575	270	434	117	197	31	24	84
26	26	50	23	71	445	250	364	111	153	30	23	75
27	25	50	23	65	376	230	322	106	128	28	22	68
28	25	50	23	60	328	800	317	106	117	25	21	63
29	30	45	27	56	---	1500	336	106	108	23	29	59
30	32	40	28	49	---	1200	294	103	101	23	22	55
31	27	---	34	107	---	800	---	101	---	21	21	---
TOTAL	884	4768	948	5355	8835	14934	10540	4846	3884	1579	710	6032
MEAN	28.5	159	30.6	173	316	482	351	156	129	50.9	22.9	201
MAX	38	700	40	1220	2270	1500	2050	275	739	94	30	1380
MIN	25	26	23	33	63	152	152	101	66	21	20	18
CFSM	.08	.44	.08	.48	.88	1.34	.97	.43	.36	.14	.06	.56
IN.	.09	.49	.10	.55	.91	1.54	1.09	.50	.40	.16	.07	.62
AC-FT	1750	9420	1880	10620	17520	29620	20910	9610	7700	3130	1410	11960

CAL YR 1974 TOTAL 72129 MEAN 198 MAX 5620 MIN 23 CFSM .55 IN 7.43 AC-FT 143100
WTR YR 1975 TOTAL 63295 MEAN 173 MAX 2270 MIN 18 CFSM .48 IN 6.52 AC-FT 125500

PEAK DISCHARGE (BASE, 1,800 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-10	2115	10.09	3,900	6-23	1700	7.22	2,120
2-23	0030	10.36	4,040	9-7	2330	6.93	1,980
4-23	1700	12.86	6,100	9-14	1515	8.68	3,000

07071000 Greer Spring at Greer, Mo.

LOCATION.--Lat 36°47'11", long 91°20'53", in SE¼SW¼ sec.36, T.25 N., R.4 W., Oregon County, on right bank 300 ft (91 m) downstream from lower outlet of spring, 1 mi (1.6 km) north of Greer, and 1 mi (1.6 km) upstream from Eleven Point River.

PERIOD OF RECORD.--August to December 1904 (gage heights and discharge measurements only), October 1921 to current year. October to December 1921 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 564.00 ft (171.907 m) above mean sea level. Aug. 10 to Dec. 31, 1904, nonrecording gage at site 250 ft (76 m) downstream at different datum. Nov. 17, 1921, to June 25, 1934, nonrecording gage at site 250 ft (76 m) downstream at datum 0.74 ft (0.226 m) lower than present datum.

AVERAGE DISCHARGE.--54 years, 337 ft^3/s (9.54 m^3/s), 244,200 acre-ft/yr (301 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 852 ft^3/s (24.1 m^3/s) Mar. 28 (gage height, 1.79 ft or 0.546 m); minimum, 340 ft^3/s (9.63 m^3/s) Sept. 3-7; minimum gage height, 0.88 ft (0.268 m) Dec. 26.
Period of record: Maximum discharge, 1,510 ft^3/s (42.8 m^3/s) Nov. 17, 1958, includes about 900 ft^3/s (25 m^3/s) of surface runoff (gage height, 2.63 ft or 0.802 m) from rating curve extended about 700 ft^3/s (20 m^3/s) maximum excluding surface runoff, 903 ft^3/s (25.57 m^3/s) May 26, 1927; minimum, 104 ft^3/s (2.95 m^3/s) Nov. 16-19, 1956, Jan. 18, 19, 1957.

REMARKS.--Records fair except during periods of no gage-height record, which are poor. Occasional runoff from drainage area of 2.97 mi^2 (7.69 km^2) included in records.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	423	391	430	414	470	670	745	687	545	560	409	349
2	423	391	430	414	495	670	733	681	545	550	400	349
3	418	395	430	437	505	670	716	675	540	540	400	345
4	418	400	432	442	500	670	710	664	535	530	391	340
5	418	400	432	437	500	664	698	660	535	515	382	340
6	414	405	432	437	495	654	692	650	535	510	382	340
7	414	405	432	437	495	638	687	650	535	505	382	345
8	414	400	432	437	490	627	681	640	535	490	382	345
9	408	400	428	442	480	617	675	640	535	485	382	345
10	405	400	428	520	470	606	670	630	535	480	382	382
11	400	500	428	591	465	596	664	620	530	480	377	451
12	395	500	428	591	465	638	659	622	530	475	377	545
13	395	490	428	586	456	664	648	617	530	475	377	540
14	395	490	423	580	451	670	643	617	530	475	377	520
15	395	480	423	580	446	654	638	612	535	470	377	505
16	395	480	418	570	442	643	633	606	540	465	377	490
17	395	470	414	555	442	654	633	601	535	461	372	490
18	391	470	418	565	437	704	627	601	535	461	372	505
19	391	460	409	530	432	733	627	601	530	456	368	560
20	391	460	414	515	428	710	617	601	525	451	368	596
21	386	450	414	505	428	692	612	596	520	446	368	591
22	386	450	414	500	461	681	606	591	520	442	363	580
23	386	440	409	485	670	675	601	586	570	432	359	570
24	386	440	409	480	687	670	601	580	591	428	359	565
25	386	430	409	475	681	664	664	575	591	426	354	550
26	386	430	409	465	675	654	681	575	591	423	354	545
27	386	430	409	461	675	659	681	570	591	423	349	530
28	386	430	409	456	670	776	681	565	580	423	349	515
29	391	430	409	451	---	789	681	560	580	414	349	500
30	391	430	409	446	---	752	687	555	570	414	349	490
31	391	---	409	456	---	745	---	550	---	414	349	---
TOTAL	12359	13147	13018	15235	14311	20909	19891	18979	16399	14521	11536	14118
MEAN	399	438	420	491	511	674	663	612	547	468	372	471
MAX	423	500	432	591	687	789	745	687	591	560	409	596
MIN	386	391	409	414	428	596	601	550	520	414	349	340
AC-FT	24510	26080	25820	30220	28390	41470	39450	37640	32530	28800	22880	28000

CAL YR 1974 TOTAL 194681 MEAN 533 MAX 733 MIN 386 AC-FT 386000
WTR YR 1975 TOTAL 184422 MEAN 505 MAX 789 MIN 340 AC-FT 365800

07071500 Eleven Point River near Bardley, Mo.

LOCATION.--Lat 36°38'55", long 91°12'03", in NE¼SE¼ sec.17, T.23 N., R.2 W., Oregon County, on downstream side of right pier of main truss of bridge on U.S. Highway 160, 7 mi (11.3 km) southwest of Bardley, 7.5 mi (12.1 km) upstream from Fredericks Fork, and at mile 53.7 (86.4 km).

DRAINAGE AREA.--793 mi² (2,050 km²).

PERIOD OF RECORD.--October 1921 to current year. October 1921 monthly discharge only, published in WSP 1311.

GAGE.--Water-stage recorder. Datum of gage is 410.84 ft (125.224 m) above mean sea level. Prior to June 26, 1934, nonrecording gage at site 100 ft (30 m) upstream at datum 0.06 ft (0.018 m) higher. June 26, 1934, to Oct. 19, 1939, nonrecording gage, at present site and datum.

AVERAGE DISCHARGE.--54 years, 761 ft³/s (21.6 m³/s), 13.02 in/yr (331 mm/yr), 551,300 acre-ft/yr (680 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 6,640 ft³/s (188 m³/s) Sept. 12 (gage height, 8.25 ft or 2.515 m); minimum, 495 ft³/s (14.0 m³/s) Sept. 9, 10 (gage height, 2.66 ft or 0.808 m).

Period of record: Maximum discharge, 40,000 ft³/s (1,133 m³/s) Apr. 14, 1927 (gage height, 18.74 ft or 5.712 m, from floodmarks), from rating curve extended above 25,000 ft³/s (708 m³/s); minimum, 152 ft³/s (4.30 m³/s) Jan. 27, 1956, Jan. 11, 1957; minimum gage height, 1.06 ft (0.323 m) Sept. 6-11, 1925 (present site and datum).

Maximum stage known, 19.7 ft (6.00 m) in August 1915, from floodmarks (discharge, 44,000 ft³/s or 1,250 m³/s, from rating curve extended above 25,000 ft³/s or 708 m³/s).

REMARKS.--Records good. Records of chemical analyses downstream are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 827: 1927-28, 1935. WSP 927: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	663	638	670	573	1010	1570	2880	1770	951	874	623	534
2	657	645	663	584	1210	1490	2610	1660	958	840	633	528
3	651	663	648	653	1230	1420	2400	1600	943	847	627	521
4	651	1250	633	693	1200	1360	2220	1530	936	834	617	518
5	651	1330	623	687	1180	1330	2100	1460	943	819	605	514
6	645	1070	619	679	1140	1300	2000	1410	958	809	599	509
7	639	965	623	670	1080	1290	1930	1350	929	802	594	506
8	639	901	611	672	1060	1230	1880	1330	907	782	587	501
9	639	855	596	680	1020	1210	1830	1340	921	776	583	499
10	639	920	590	1640	998	1240	1770	1330	907	760	580	598
11	639	1360	590	3680	996	1240	1710	1290	900	749	578	2530
12	633	1270	583	1680	984	1560	1670	1260	878	743	574	4620
13	633	1150	570	1340	965	1990	1630	1230	856	736	571	1980
14	664	1060	559	1210	937	2000	1610	1220	856	723	572	1210
15	666	990	554	1130	935	1860	1580	1210	892	715	571	1020
16	655	950	550	1070	915	1790	1550	1210	885	706	585	925
17	654	916	539	1010	914	1970	1530	1200	892	703	573	1550
18	651	885	530	989	898	2590	1530	1180	878	707	563	1330
19	645	862	527	966	889	3800	1520	1160	859	701	559	1780
20	641	831	529	925	875	2980	1460	1140	846	690	555	3040
21	635	801	523	903	871	2510	1430	1130	828	688	550	1570
22	633	778	525	871	963	2340	1410	1120	837	680	547	1260
23	636	771	525	847	4510	2200	1400	1080	927	677	545	1120
24	635	769	533	837	3460	2130	1400	1070	1540	649	542	1040
25	635	744	524	833	2390	1980	2120	1060	1040	641	541	979
26	633	725	520	825	1980	1840	3060	1040	968	652	546	930
27	630	714	525	805	1760	1850	2090	1020	935	647	541	894
28	641	701	523	798	1660	3550	1890	1000	921	636	536	859
29	652	688	536	786	---	5000	1770	1000	912	630	533	825
30	646	681	546	772	---	4000	1790	996	888	624	547	801
31	641	---	565	828	---	3330	---	973	---	619	541	---
TOTAL	19972	26885	17652	30634	37990	65930	55770	38369	27891	22517	17718	35491
MEAN	644	896	569	988	1357	2127	1859	1238	930	726	572	1183
MAX	666	1360	670	3680	4510	5000	3060	1770	1540	874	633	4620
MIN	630	638	520	573	871	1210	1400	973	828	619	533	499
CFSM	.81	1.13	.72	1.25	1.71	2.68	2.34	1.56	1.17	.92	.72	1.49
IN.	.94	1.26	.83	1.44	1.78	3.09	2.62	1.80	1.31	1.06	.83	1.66
AC-FT	39610	53330	35010	60760	75350	130800	110600	76100	55320	44680	35140	70400

CAL YR 1974 TOTAL 44452 MEAN 1218 MAX 6360 MIN 520 CFSM 1.54 IN 20.85 AC-FT 881700
WTR YR 1975 TOTAL 396819 MEAN 1087 MAX 5000 MIN 499 CFSM 1.37 IN 18.61 AC-FT 787100

PEAK DISCHARGE (BASE, 4,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	1030	7.21	5,160	9-12	1745	8.25	6,640
2-23	1630	7.91	6,140	9-20	1045	6.33	4,080
3-29	0100	8.04	6,320				

07185500 Stahl Creek near Miller, Mo.

LOCATION.--Lat 37°11'42", long 93°50'37", in SE¼ sec.26, T.29 N., R.27 W., Lawrence County, on left downstream wingwall of bridge on State Highway 39, 1.5 mi (2.4 km) south of Miller and 6.4 mi (10.3 km) upstream from mouth.

DRAINAGE AREA.--3.86 mi² (10.0 km²).

PERIOD OF RECORD.--June 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,184.49 ft (361.033 m) above mean sea level.

AVERAGE DISCHARGE.--25 years, 2.90 ft³/s (0.082 m³/s), 10.2 in/yr (259 mm/yr), 2,100 acre-ft/yr (2.59 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 478 ft³/s (13.5 m³/s) June 22 (gage height, 5.49 ft or 1.673 m); no flow Aug. 23-27.
Period of record: Maximum discharge, 1,250 ft³/s (35.4 m³/s) Nov. 1, 1972 (gage height, 7.30 ft or 2.225 m); no flow at times most years.

REMARKS.--Records fair.

REVISIONS.--WRD Mo. 1974: 1973.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.34	4.1	1.3	2.6	20	8.1	3.2	.39	.02	.23	.08	.39
2	.28	4.0	1.2	3.1	10	5.2	2.9	.39	.06	.19	.08	.28
3	.27	86	1.1	3.5	8.0	4.1	2.6	.47	.15	.19	.08	.21
4	.28	56	1.1	2.4	6.0	3.8	2.4	.37	.04	.16	.06	.19
5	.28	9.6	1.4	2.3	11	3.4	2.1	.30	19	.12	.06	.20
6	.28	7.6	6.8	2.1	9.0	3.3	2.0	.25	1.3	1.4	.06	.19
7	.32	6.5	5.9	1.9	7.0	10	2.0	.25	3.7	.80	.06	.14
8	.33	6.0	3.5	1.7	5.0	3.8	2.0	.27	1.1	.13	.06	.11
9	.36	5.5	2.9	3.9	4.0	3.7	1.8	.25	.64	.10	.06	.10
10	.36	11	2.8	5.8	3.0	4.0	1.6	.18	.93	.08	.06	.18
11	.35	7.8	9.0	2.8	3.0	10	1.5	.16	2.2	.07	.02	5.1
12	.60	5.9	5.0	2.5	2.5	21	1.4	.13	.75	.05	.02	2.8
13	.79	5.0	3.9	2.5	2.5	8.4	1.4	.13	.44	.06	.02	.67
14	10	4.4	3.4	2.0	2.5	6.2	1.5	.13	.31	.03	.08	.47
15	3.6	4.0	3.1	1.8	2.5	7.7	1.2	.12	.24	.02	.08	.53
16	2.7	3.8	2.7	1.6	2.2	20	1.1	.09	.40	.02	.06	.43
17	2.3	3.6	2.4	1.5	2.2	9.0	.97	.08	25	.01	.06	.38
18	1.8	3.3	2.3	1.5	2.2	24	.89	.07	1.7	.01	.06	.35
19	1.6	3.2	2.1	1.5	2.2	7.0	.77	.05	.84	.02	.03	2.5
20	1.4	2.8	1.9	1.5	2.2	5.1	.71	.04	.57	.01	.03	1.1
21	1.3	2.6	1.7	1.0	2.2	4.1	.68	.06	.45	.01	.01	.71
22	1.3	2.4	1.7	1.0	46	3.6	.62	.05	40	.01	.01	.61
23	1.3	2.1	1.5	1.0	8.1	3.3	.59	.04	3.4	2.6	0	.50
24	1.1	1.9	1.4	1.0	6.7	2.6	2.6	.05	1.4	1.1	0	.43
25	1.0	1.7	1.3	1.5	6.3	2.0	1.1	.09	.98	.18	0	.42
26	1.0	1.5	1.2	1.5	6.8	2.0	.78	.09	.65	.16	0	.39
27	.98	1.4	1.3	1.5	8.4	18	.57	.06	.47	.16	.11	.38
28	1.4	1.3	1.2	1.5	11	9.5	.63	.07	.39	.14	.05	.94
29	1.7	1.3	1.2	1.5	---	6.3	.52	1.0	.32	.12	.05	9.3
30	1.3	1.4	1.1	20	---	4.4	.46	.12	.27	.10	33	3.7
31	7.2	---	4.6	40	---	3.7	---	.04	---	.08	.49	---
TOTAL	47.82	257.7	82.0	120.0	202.5	227.3	42.59	5.79	107.72	8.34	34.94	33.70
MEAN	1.54	8.59	2.65	3.87	7.23	7.33	1.42	.19	3.59	.27	1.13	1.12
MAX	10	86	9.0	40	46	24	3.2	1.0	40	2.6	33	9.3
MIN	.27	1.3	1.1	1.0	2.2	2.0	.46	.04	.02	.01	0	.10
CFSM	.40	2.23	.69	1.00	1.87	1.90	.37	.05	.93	.07	.29	.29
IN.	.46	2.48	.79	1.16	1.95	2.19	.41	.06	1.04	.08	.34	.32
AC-FT	95	511	163	238	402	451	84	11	214	17	69	67

CAL YR 1974 TOTAL 1547.51 MEAN 4.24 MAX 266 MIN 0 CFSM 1.10 IN 14.91 AC-FT 3070
WTR YR 1975 TOTAL 1170.40 MEAN 3.21 MAX 86 MIN 0 CFSM .83 IN 11.28 AC-FT 2320

PEAK DISCHARGE (BASE, 300 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
6-22	1800	5.49	478	8-30	0245	5.01	347

07185700 Spring River at Larussell, Mo.

LOCATION.--Lat 37°09'13", long 94°03'21", SW¼SW¼ sec.12, T.28 N., R.29 W., Lawrence County, on right bank on upstream side of Bower Mills Bridge, 0.8 mi (1.3 km) north of Larussell, and 2.5 mi (4.0 km) upstream from Cave Spring Branch.

DRAINAGE AREA.--306 mi² (793 km²).

PERIOD OF RECORD.--April 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,030 ft (313.9 m) from topographic map. Prior to Oct. 18, 1961, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--18 years, 251 ft³/s (7.11 m³/s), 11.14 in/yr (283 mm/yr), 181,800 acre-ft/yr (224 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,120 ft³/s (230 m³/s) Nov. 4 (gage height, 13.31 ft or 4.057 m); minimum, 73 ft³/s (2.07 m³/s) Oct. 11, 12; minimum gage height, 4.83 ft (1.472 m) Aug. 25, 26, 27, 28.
Period of record: Maximum discharge, 22,500 ft³/s (637 m³/s) Nov. 1, 1972 (gage height, 17.58 ft or 5.358 m); minimum, 15 ft³/s (0.425 m³/s) Dec. 21, 1963, result of ice conditions upstream; minimum gage height, 3.87 ft (1.180 m) Sept. 12, 13, 1959.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	205	285	546	1200	1170	857	477	207	190	107	184
2	97	192	273	417	926	1000	753	427	213	180	107	154
3	94	1180	264	437	804	864	733	419	215	170	106	136
4	91	5440	261	426	728	736	682	393	208	160	103	122
5	88	1930	257	402	737	727	631	373	627	160	100	114
6	84	1050	305	413	661	687	582	362	372	150	96	108
7	84	840	467	413	583	969	548	395	332	150	97	100
8	81	745	407	418	558	768	536	354	272	150	94	96
9	81	712	367	418	516	705	511	339	245	140	91	89
10	75	784	351	567	481	706	472	320	413	140	89	102
11	74	1050	483	596	468	753	464	307	330	140	87	118
12	80	788	529	516	436	2400	443	299	253	140	85	325
13	83	712	463	510	410	2090	435	246	233	130	83	184
14	151	658	433	498	396	1230	432	277	218	130	103	149
15	221	617	414	495	381	1120	410	273	214	132	113	141
16	179	581	395	310	371	1670	394	243	205	122	107	150
17	161	546	375	297	387	2090	376	255	900	120	100	136
18	142	513	364	291	360	2420	370	251	500	118	98	125
19	129	492	350	286	340	2760	367	244	400	119	95	198
20	121	457	340	271	327	1500	345	238	350	119	134	266
21	113	432	327	263	319	1190	332	239	300	116	103	200
22	104	408	317	250	1590	1070	326	233	250	114	93	173
23	101	393	312	263	2140	980	320	227	400	117	88	158
24	98	368	302	238	1090	880	515	226	340	273	83	165
25	95	350	295	238	971	787	1910	224	280	137	79	135
26	94	336	285	234	929	748	833	217	250	132	78	126
27	93	323	283	223	943	1180	598	215	230	137	79	120
28	91	309	278	218	1050	1880	558	210	220	123	96	122
29	98	305	274	216	---	1310	538	242	210	119	91	194
30	92	296	272	535	---	1060	507	229	200	116	956	157
31	151	---	311	2270	---	947	---	215	---	109	406	---
TOTAL	3350	23090	10639	13455	20102	38397	16768	9029	9387	4353	4235	4525
MEAN	108	770	343	434	718	1239	559	291	313	140	137	151
MAX	221	5440	529	2270	2140	2760	1910	477	900	273	956	325
MIN	74	192	257	216	319	687	320	210	200	109	78	89
CFSM	.35	2.52	1.12	1.42	2.35	4.05	1.83	.95	1.02	.46	.45	.49
IN.	.41	2.81	1.29	1.64	2.44	4.67	2.04	1.10	1.14	.53	.51	.55
AC-FT	6640	45800	21100	26690	39870	76160	33260	17910	18620	8630	8400	8980

CAL YR 1974 TOTAL 166150 MEAN 455 MAX 9690 MIN 74 CFSM 1.49 IN 20.20 AC-FT 329600
WTR YR 1975 TOTAL 157330 MEAN 431 MAX 5440 MIN 74 CFSM 1.41 IN 19.13 AC-FT 312100

PEAK DISCHARGE (BASE, 3,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-04	1230	13.31	8,120	3-12	1900	9.97	3,100
2-22	2315	10.06	3,190	3-19	0345	10.89	4,050

07185765 Spring River at Carthage, Mo.

LOCATION.--Lat 37°11'11", long 94°18'56", in N½SW¼SE¼ sec.33, T.29 N., R.31 W., Jasper County, on downstream side of second pier from left abutment of Missouri Pacific Railroad bridge in Carthage and 600 ft (183 m) downstream from U.S. Highway 71 bridge.

DRAINAGE AREA.--425 mi² (1,100 km²).

PERIOD OF RECORD.--October 1966 to current year. Occasional discharge measurements 1951-54. Intermittent gage readings since Oct. 31, 1945, collected by Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is 923.68 ft (281.538 m) above mean sea level. Prior to Jan. 26, 1967, nonrecording gage at site 600 ft (183 m) upstream at same datum.

AVERAGE DISCHARGE.--9 years, 437 ft³/s (12.38 m³/s), 13.96 in/yr (355 mm/yr), 316,600 acre-ft/yr (390 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 8,190 ft³/s (232 m³/s) Nov. 5 (gage height, 12.63 ft or 3.850 m); minimum, 90 ft³/s (2.55 m³/s) Aug. 25 (gage height, 3.02 ft or 0.920 m).
Period of record: Maximum discharge, 24,800 ft³/s (702 m³/s) Nov. 1, 1972 (gage height, 17.15 ft or 5.227 m); minimum, 37 ft³/s (1.05 m³/s) July 26, 27, 1972.
Flood of May 18, 1943, reached a stage of 22.0 ft (6.71 m) by highwater mark 1,800 ft (549 m) upstream.

REMARKS.--Records fair. Low-flow slightly regulated by gristmills upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	295	351	501	6000	1800	1200	503	254	230	127	241
2	134	310	341	456	5000	1510	1100	544	256	217	124	178
3	126	[illegible]	330	467	2400	1170	1000	534	269	208	123	156
4	124	5800	322	471	2000	1030	900	511	259	204	121	141
5	121	5870	314	438	2300	946	850	492	834	197	118	133
6	121	1590	430	424	1600	874	800	463	668	191	112	127
7	120	1170	728	413	1200	1040	750	456	488	186	112	122
8	117	982	636	402	1000	1050	700	469	407	179	109	117
9	116	867	527	388	900	864	691	444	343	176	108	113
10	115	844	474	442	800	878	653	417	316	172	197	128
11	112	1220	625	620	790	1060	626	398	514	146	106	163
12	120	957	830	475	700	3530	594	391	343	157	102	255
13	122	910	659	428	650	4030	579	373	307	157	104	274
14	159	734	596	411	600	2060	572	361	281	157	121	195
15	248	669	568	404	550	1660	561	355	271	154	140	175
16	241	630	527	391	650	2180	541	343	265	151	127	175
17	211	593	490	373	800	3390	517	333	1020	148	120	174
18	191	570	468	361	900	3010	507	322	941	144	116	164
19	174	548	449	356	600	4810	491	318	482	142	111	172
20	166	514	422	342	455	2220	466	307	402	142	108	286
21	157	480	401	331	428	1720	447	305	355	141	129	260
22	149	469	388	320	1730	1440	432	298	327	137	115	221
23	143	453	378	319	4660	1280	426	290	612	137	109	202
24	142	429	363	302	1770	1130	660	279	389	236	105	188
25	137	408	344	302	1360	1000	1560	286	329	188	103	179
26	136	385	331	298	1270	931	1480	273	308	154	96	170
27	137	382	317	285	1270	1550	737	263	275	159	97	165
28	142	370	310	279	1520	3630	656	257	273	149	105	173
29	137	363	303	273	---	2240	653	277	257	140	112	263
30	137	363	297	403	---	1610	583	292	242	135	220	344
31	228	---	315	4890	---	1400	---	269	---	129	988	---
TOTAL	4619	30336	13834	16565	43863	57063	21732	11493	12203	5171	4415	5654
MEAN	149	1011	446	534	1567	1841	724	371	409	167	142	188
MAX	248	5870	830	4890	6000	4810	1560	583	1020	230	988	344
MIN	112	295	297	273	428	864	426	257	242	129	96	113
CFSM	.35	2.38	1.05	1.26	3.69	4.33	1.70	.87	.96	.39	.33	.44
IN.	.40	2.66	1.21	1.45	3.84	4.99	1.90	1.01	1.08	.45	.39	.49
AC-FT	9160	60170	27440	32860	87000	113200	43110	22800	24360	10260	8760	11210

CAL YR 1974 TOTAL 219595 MEAN 591 MAX 9960 MIN 112 CFSM 1.39 IN 14.87 AC-FT 427600
WTR YR 1975 TOTAL 227028 MEAN 622 MAX 6000 MIN 96 CFSM 1.46 IN 19.87 AC-FT 450300

PEAK DISCHARGE (BASE, 3,500 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-5	0430	12.63	8,190	3-13	0600	10.98	5,120
1-31	2000	11.95	6,810	3-19	1400	11.00	5,150
2-23	0600	11.34	5,710	3-28	0500	10.28	4,210

07186000 Spring River near Waco, Mo.

LOCATION.--Lat 37°14'44", long 94°33'58", on line between SE¼ sec. 7 and NE¼ sec.18, T.29 N., R.33 W., Jasper County, on left bank on downstream side of left pier of county highway bridge, 0.8 mi (1.3 km) downstream from Blackberry Creek, 1.5 mi (2.4 km) east of Waco, and 47.6 mi (76.6 km) upstream from mouth.

DRAINAGE AREA.--1,164 mi² (3,015 km²).

PERIOD OF RECORD.--April 1924 to current year.

GAGE.--Water-stage recorder. Datum of gage is 833.23 ft (253.969 m) above mean sea level. Prior to Feb. 23, 1935, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--51 years, 861 ft³/s (24.38 m³/s), 10.05 in/yr (255 mm/yr), 623,800 acre-ft/yr (769 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 20,500 ft³/s (581 m³/s) Nov. 4 (gage height, 20.22 ft or 6.163 m); minimum, 90 ft³/s (2.55 m³/s) Aug. 13, 14 (gage height, 1.95 ft or 0.594 m)
Period of record: Maximum discharge, 103,000 ft³/s (2,920 m³/s) May 19, 1943 (gage height, 30.94 ft or 9.431 m, from floodmark); minimum, 4.2 ft³/s (0.119 m³/s) Aug. 28, 1954; minimum gage height, 0.80 ft (0.244 m) July 24, 1934.

REMARKS.--Records fair. Low flow slightly regulated by gristmills above station. Records of chemical analyses are published in Section 2 of this report.

REVISIONS.--WSP 1117: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	285	1870	477	1140	17100	5300	1970	970	297	340	133	1160
2	224	2870	461	1310	11700	3900	1710	873	303	288	127	407
3	187	14800	443	2020	5480	2460	1530	855	342	258	124	260
4	165	20100	542	2110	2480	1850	1390	796	322	237	118	208
5	151	20100	534	1420	2670	1620	1290	744	865	227	111	173
6	144	14200	2300	1010	2600	1470	1190	685	1340	216	111	152
7	138	4340	5540	880	1810	1410	1110	643	918	206	101	137
8	134	1980	4000	802	1450	1590	1110	698	702	197	99	127
9	132	1620	1950	743	1270	1340	1040	678	548	190	99	119
10	131	1670	1170	1780	1120	1360	980	627	485	184	98	115
11	129	2630	3500	2690	1050	1530	919	565	686	172	98	133
12	184	2450	4670	1630	1010	5940	881	529	596	171	93	208
13	440	1670	2940	927	941	9920	847	515	475	165	93	342
14	1080	1330	1610	770	901	6440	834	486	404	163	122	206
15	1410	1150	1300	708	875	3830	821	462	455	152	160	273
16	1060	1040	1140	680	883	6590	790	438	343	144	174	228
17	549	970	1020	641	1710	7630	754	416	3620	145	171	206
18	375	915	929	614	1630	7340	739	397	3620	141	163	185
19	301	878	810	604	1120	6450	716	386	1550	142	138	295
20	240	834	764	603	909	4910	675	367	833	143	219	401
21	234	774	712	574	811	2700	632	357	622	140	170	588
22	214	732	670	535	4590	2200	607	347	515	133	155	379
23	201	696	634	508	12900	1910	634	347	525	127	128	266
24	192	649	598	476	8400	1690	1050	337	734	140	116	220
25	185	602	564	487	4830	1470	3180	359	466	245	106	198
26	180	572	532	499	3380	1440	3200	341	392	201	101	169
27	175	543	512	468	4720	4080	1450	323	353	173	100	156
28	189	519	499	442	5810	11800	1110	310	366	185	103	153
29	228	501	488	506	---	9460	1020	316	344	180	117	268
30	221	492	477	1130	---	5260	1010	346	369	152	160	816
31	1270	---	598	19500	---	2570	---	327	---	142	1020	---
TOTAL	10748	103490	42192	44199	104150	127520	35989	15840	23390	5699	4828	8658
MEAN	347	3450	1361	1426	3720	4114	1200	511	780	184	156	289
MAX	1410	20100	5540	19500	17100	11800	3200	970	3620	340	1020	1160
MIN	129	492	443	442	811	1340	607	310	297	127	93	115
CFSM	.30	2.96	1.17	1.23	3.20	3.53	1.03	.44	.67	.16	.13	.25
IN.	.34	3.31	1.35	1.41	3.33	4.08	1.15	.51	.75	.18	.15	.28
AC-FT	21320	205300	83690	87670	206600	252900	71380	31420	46390	11300	9580	17170

CAL YR 1974 TOTAL 563601 MEAN 1544 MAX 46700 MIN 129 CFSM 1.33 IN 18.01 AC-FT 1118000
WTR YR 1975 TOTAL 526712 MEAN 1443 MAX 20100 MIN 93 CFSM 1.24 IN 16.83 AC-FT 1045000

PEAK DISCHARGE (BASE, 13,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-04	1330	20.22	20,500	2-23	1000	16.80	13,600
1-31	2245	19.55	18,600				

07186400 Center Creek near Carterville, Mo.

LOCATION.--Lat 37°08'26", long 94°22'57", in NW¼NW¼NW¼ sec.24, T.28 N., R.32 W., Jasper County, at downstream side of right pier of bridge on County Road HH, 1.5 mi (2.4 km) downstream from Grove Creek, 3 mi (4.8 km) east of Carterville, and 17 mi (27.4 km) above mouth.

DRAINAGE AREA.--232 mi^2 (601 km^2).

PERIOD OF RECORD.--June 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 913.21 ft (278.346 m) above mean sea level (levels by Missouri State Highway Commission).

AVERAGE DISCHARGE.--13 years, 199 ft^3/s (5.64 m^3/s), 11.65 in/yr (296 mm/yr), 144,200 acre-ft/yr (178 hm^3/yr).

EXTREMES.--Current year: Maximum discharge, 6,600 ft^3/s (187 m^3/s) Nov. 4 (gage height, 11.68 ft or 3.560 m); minimum, 27 ft^3/s (0.76 m^3/s) Sept. 10 (gage height, 0.34 ft or 0.104 m).

Period of record: Maximum discharge, 22,500 ft^3/s (637 m^3/s) Nov. 1, 1972 (gage height, 15.94 ft or 4.859 m); minimum, 9.4 ft^3/s (0.266 m^3/s) Aug. 20, 21, 1972; minimum gage height, 0.28 ft (0.085 m) Oct. 20, 1964.

Flood of Oct. 2, 1959, reached a stage of 18.57 ft (5.660 m), from floodmark.

REMARKS.--Records fair. Records of water quality are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	275	169	189	1200	1100	810	336	124	133	86	51
2	69	234	160	201	918	900	737	316	137	125	76	45
3	65	2620	152	234	750	800	686	304	154	120	74	41
4	62	5460	146	248	662	780	610	282	138	115	69	37
5	57	1820	141	243	653	669	567	269	175	111	65	34
6	56	1000	251	234	575	630	529	256	206	106	63	33
7	56	775	481	226	504	815	501	278	285	103	60	31
8	54	656	383	216	473	662	481	267	234	100	58	30
9	52	577	330	205	427	608	450	239	195	96	56	29
10	50	569	311	261	396	605	427	220	204	97	51	32
11	48	641	509	279	379	780	404	209	207	91	50	216
12	62	517	520	254	349	3140	383	201	202	88	47	509
13	65	473	431	235	323	2130	370	192	178	87	48	177
14	151	437	394	225	307	1250	360	186	163	85	73	137
15	229	400	364	215	291	1110	342	180	159	83	86	120
16	179	371	333	203	286	1620	326	171	144	81	73	108
17	154	345	307	192	284	1480	315	164	1070	77	59	93
18	137	325	283	184	265	2140	315	158	528	76	86	84
19	124	306	265	179	255	2070	295	154	342	74	71	118
20	114	284	247	168	243	1270	278	150	279	79	63	104
21	103	265	230	163	255	1060	269	148	238	75	57	97
22	97	253	217	155	2220	922	260	142	210	74	53	89
23	93	240	207	146	2230	829	250	142	310	74	49	78
24	89	225	196	147	1100	740	400	137	222	163	46	70
25	83	211	180	144	926	666	1500	147	185	91	43	65
26	88	203	171	138	800	616	600	133	166	182	41	58
27	75	195	164	133	900	1700	500	128	157	379	41	52
28	84	186	157	132	1000	2370	450	125	180	136	49	70
29	83	184	152	127	---	1470	400	145	149	115	67	87
30	76	178	146	253	---	1080	356	149	142	101	75	78
31	252	---	160	3160	---	921	---	135	---	92	62	---
TOTAL	2973	20025	8165	9089	19051	36861	14151	6055	7163	3409	1875	2765
MEAN	95.9	668	263	293	680	1189	472	195	239	110	60.5	92.2
MAX	252	5460	520	3160	2230	3140	1500	336	1070	379	86	509
MIN	48	178	141	127	243	605	250	125	124	74	41	29
CFSM	.41	2.88	1.13	1.26	2.93	5.13	2.03	.84	1.03	.47	.26	.40
IN.	.48	3.21	1.31	1.46	3.05	5.91	2.27	.97	1.15	.55	.30	.44
AC-FT	5900	39720	16200	18030	37790	73110	28070	12010	14210	6760	3720	5480

CAL YR 1974 TOTAL 131744 MEAN 361 MAX 8060 MIN 48 CFSM 1.56 IN 21.12 AC-FT 261300
WTR YR 1975 TOTAL 131582 MEAN 360 MAX 5460 MIN 29 CFSM 1.55 IN 21.10 AC-FT 261000

PEAK DISCHARGE (BASE, 2,500 FT^3/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	0900	11.68	6,600	3-12	0830	8.16	3,470
1-31	0715	9.43	4,440	3-18	2000	8.38	3,630
2-22	2045	9.56	4,540	3-27	2315	9.40	4,410

07187000 Shoal Creek above Joplin, Mo.

LOCATION.--Lat 37°01'23", long 94°30'58", in SE¼NE¼NE¼ sec.34, T.27 N., R.33 W., Newton County, on right bank 250 ft (76 m) upstream from mouth of Spring Creek, 1,400 ft (427 m) downstream from bridge on State Highway 86, 0.5 mi (0.8 km) south of city limits of Joplin and 13.2 mi (21.2 km) above mouth.

DRAINAGE AREA.--427 mi² (1,106 km²).

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 886.87 ft (270.318 m) above mean sea level. Prior to July 21, 1966, water-stage recorder at site 1.8 mi (2.9 km) upstream, at datum 15.5 ft (4.72 m) higher.

AVERAGE DISCHARGE.--34 years, 407 ft³/s (11.53 m³/s), 12.94 in/yr (329 mm/yr), 294,900 acre-ft/yr (364 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 18,300 ft³/s (518 m³/s) Nov. 4 (gage height, 16.62 ft or 5.066 m); minimum, 149 ft³/s (4.22 m³/s) Sept. 8, 9 (gage height, 2.52 ft or 0.768 m).
Period of record: Maximum discharge, 62,100 ft³/s (1,730 m³/s) May 18, 1943 (gage height, 16.8 ft or 5.12 m) former site and datum; minimum, 12 ft³/s (0.340 m³/s) Sept. 7, 1954.

REMARKS.--Records fair.

REVISIONS.--WSP 1117: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	671	463	547	1490	1670	1650	989	336	267	216	196
2	217	612	450	552	1230	1590	1490	859	335	255	212	179
3	209	3730	436	556	1080	1440	1350	828	364	247	210	169
4	199	14600	425	562	991	1300	1240	778	354	243	200	163
5	192	7170	415	555	946	1190	1150	727	340	237	196	157
6	187	2020	478	543	896	1110	1080	696	639	231	199	152
7	181	2090	666	526	829	1050	1030	672	437	247	188	155
8	180	1620	601	508	794	986	989	700	381	545	186	152
9	177	1330	640	486	745	931	1050	640	347	307	180	150
10	171	1260	613	550	712	967	887	614	348	278	176	164
11	165	1380	719	570	690	1090	844	718	356	248	171	237
12	204	1190	836	536	654	2770	802	686	320	256	167	313
13	257	1040	805	507	615	2880	779	598	300	245	165	276
14	562	939	756	488	593	2170	761	569	287	237	184	227
15	928	850	717	474	567	1890	733	551	288	234	221	211
16	734	791	673	459	553	1900	706	528	295	278	275	222
17	608	751	630	435	546	1850	604	501	632	216	264	225
18	519	712	599	422	522	2080	678	485	864	213	225	206
19	453	696	568	414	496	2980	659	468	506	216	211	216
20	410	650	541	401	476	2290	630	455	424	213	196	225
21	366	611	504	384	464	1940	607	440	378	210	186	220
22	333	595	484	372	1560	1710	587	429	347	219	180	205
23	313	573	463	355	3000	1540	581	419	332	215	174	188
24	290	546	444	352	2090	1390	615	450	329	238	172	170
25	277	521	423	355	1660	1260	4740	488	330	231	167	171
26	262	510	403	341	1490	1170	4830	427	378	242	161	161
27	247	496	388	334	1450	1930	1450	389	331	432	162	155
28	263	481	373	326	1580	3370	1200	367	325	272	170	159
29	272	472	367	328	---	2640	1080	383	312	244	173	167
30	254	474	356	407	---	2170	966	406	282	231	197	157
31	580	---	379	1660	---	1870	---	360	---	220	213	---
TOTAL	10143	50111	16695	15305	28719	55104	35848	17620	11492	7937	5985	5756
MEAN	327	1670	539	494	1026	1778	1195	568	383	256	193	192
MAX	928	14600	836	1660	3000	3370	4830	989	866	545	275	313
MIN	165	472	356	326	464	931	581	360	282	210	161	150
CFSM	.77	3.91	1.26	1.16	2.40	4.16	2.80	1.33	.90	.60	.45	.45
IN.	.88	4.37	1.45	1.33	2.50	4.80	3.12	1.54	1.00	.69	.52	.50
AC-FT	20120	99400	33110	30360	56960	109300	71100	34950	22790	15740	11870	11420

CAL YR 1974 TOTAL 285045 MEAN 781 MAX 14600 MIN 165 CFSM 1.83 IN 24.83 AC-FT 565400
WTR YR 1975 TOTAL 260715 MEAN 714 MAX 14600 MIN 150 CFSM 1.67 IN 22.71 AC-FT 517100

PEAK DISCHARGE (BASE, 6,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	1400	16.62	18,300	4-25	2315	13.69	12,800

07189000 Elk River near Tiff City, Mo.

LOCATION.--Lat 36°37'50", long 94°35'12", in NE¼ sec.22, T.22 N., R.34 W., McDonald County, on downstream side of right pier of bridge on State Highway 43, 0.8 mi (1.3 km) downstream from Blackfoot Branch, 2.8 mi (4.5 km) upstream from Buffalo Creek, 3.0 mi (4.8 km) southeast of Tiff City, and at mile 15.8 (25.4 km).

DRAINAGE AREA.--872 mi² (2,258 km²).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 750.61 ft (228.786 m) above mean sea level (levels by Corps of Engineers). Sept. 6, 1960, to Aug. 24, 1961, at site 100 ft (30.5 m) downstream.

AVERAGE DISCHARGE.--36 years, 809 ft³/s (22.91 m³/s), 12.60 in/yr (320 mm/yr), 586,100 acre-ft/yr (723 hm³/yr).

EXTREMES.--Current year: Maximum discharge, 53,200 ft³/s (1,510 m³/s) Nov. 4 (gage height, 23.32 ft (7.108 m); minimum, 122 ft³/s (3.46 m³/s) Aug. 14.
Period of record: Maximum discharge, 137,000 ft³/s (3,880 m³/s) Apr. 19, 1941, (gage height, 28.4 ft or 8.66 m, from floodmark), from rating curve extended above 60,000 ft³/s (1,700 m³/s) on basis of slope-area measurement of peak flow; minimum daily, 5.1 ft³/s (0.14 m³/s), Sept. 5, 6, 1954.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 927: 1940. WSP 1117: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	308	2490	755	3710	1430	3620	2590	2590	527	339	279	213
2	288	2620	722	2930	1530	3210	2230	1860	529	312	258	192
3	276	14500	693	2320	1510	2740	1970	1790	532	291	236	175
4	263	39600	666	2000	1510	2360	1770	1800	531	274	214	161
5	249	13100	645	1780	1510	2100	1610	1650	570	259	201	151
6	247	5730	686	1650	1500	1910	1480	1470	761	248	190	145
7	246	3890	961	1530	1420	1760	1390	1320	738	650	166	148
8	239	3080	1260	1440	1370	1630	1320	1180	763	757	151	146
9	235	2550	1320	1350	1310	1540	1240	1110	693	632	147	139
10	228	2660	1260	1320	1250	1650	1150	994	641	503	145	137
11	222	4860	1410	1360	1180	1950	1070	940	643	419	138	139
12	239	3830	1800	1330	1140	6050	1010	900	595	369	133	163
13	317	2830	1930	1260	1090	6260	971	823	533	325	128	186
14	1180	2270	1760	1210	1040	4220	943	763	475	290	146	206
15	2660	1900	1600	1160	998	3210	905	710	440	265	219	216
16	1770	1700	1470	1110	964	2630	863	668	391	241	471	237
17	1340	1560	1360	1060	942	2360	824	636	606	223	455	250
18	1090	1450	1270	1020	915	3030	806	603	784	211	349	272
19	923	1360	1190	980	878	8090	787	572	701	204	291	408
20	781	1280	1130	946	836	4850	741	547	609	202	260	738
21	674	1190	1070	907	805	3410	702	530	539	197	237	712
22	586	1110	1020	867	1400	2770	673	506	470	188	216	564
23	537	1050	982	822	8610	2360	681	473	418	181	199	476
24	494	1010	945	796	5580	2070	660	441	406	182	185	419
25	448	958	989	780	3600	1840	846	460	443	260	172	370
26	410	918	872	752	3030	1670	856	466	489	300	163	326
27	303	878	842	723	3020	2440	691	437	522	306	156	291
28	394	838	813	701	3210	8350	702	403	461	638	153	265
29	427	809	789	682	---	5610	901	444	409	494	148	247
30	417	788	768	666	---	4030	1530	792	370	386	171	228
31	1180	---	1010	918	---	3150	---	620	---	323	206	---
TOTAL	18971	122809	33988	40080	53578	102670	33912	28498	16589	10469	6583	8320
MEAN	612	4094	1096	1293	1914	3312	1130	919	553	338	212	278
MAX	2660	39600	1930	3710	8610	8350	2590	2590	784	757	471	738
MIN	222	788	645	666	805	1540	660	403	370	181	128	137
CFSM	.70	4.69	1.26	1.48	2.19	3.80	1.30	1.05	.63	.39	.24	.32
IN.	.81	5.24	1.45	1.71	2.29	4.38	1.45	1.22	.71	.45	.28	.36
AC-FT	37630	243600	67420	79500	106300	203600	67260	56530	32900	20770	13060	16520

CAL YR 1974 TOTAL 537085 MEAN 1471 MAX 39600 MIN 197 CFSM 1.69 IN 22.91 AC-FT 1065000
WTR YR 1975 TOTAL 476475 MEAN 1305 MAX 39600 MIN 128 CFSM 1.50 IN 20.33 AC-FT 945100

PEAK DISCHARGE (BASE, 9,000 FT³/S)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-4	0945	23.32	53,200	3-19	1015	12.33	10,200
2-23	1415	13.04	11,600	3-28	1300	12.54	10,600

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations, water year

Station no.	Station name	Location	[g]Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		Fox River basin					
05495100	Big Branch Tributary near Wayland	Lat 40°18'52", long 91°34'34", in NW¼SE¼ sec.29, T.64 N., R.6 W., Clark County, at culvert under U.S. Highway 61 and 5.6 mi (9.0 km) south of Wayland.	0.70 (1.81)	1955-65 1966-69f 1970-75	4-25-75	9.50	430
		Fabius River basin					
05497500	Middle Fabius River near Baring	Lat 40°19'55", long 92°12'50", in NW¼NW¼ sec.26, T.64 N., R.12 W., Scotland County, at bridge on State Highway 15, 1 mi (1.6 km) downstream from confluence of North and South Forks of Middle Fabius River, and 6 mi (9.7 km) north of Baring.	185 (479)	1931-60‡ 1961-75	4-25-75	19.37	3,620
05497700	Bridge Creek Branch near Baring	Lat 40°15'30", long 92°13'00", in NE¼NE¼ sec.22, T.63 N., R.12 W., Knox County, at culvert under State Highway 15 and about 1 mi (1.6 km) northwest of Baring.	2.38 (6.16)	1955-60 1961-63f 1964-75	4-25-75	11.84	280
		South River basin					
05501200	Nichols Branch near Palmyra	Lat 39°44'39", long 91°31'52", in SE¼SE¼ sec.11, T.57 N., R.6 W., Marion County, at culvert on county road 4 mi (6.4 km) south of Palmyra.	2.58 (6.68)	1955-75	4-25-75	19.97	780
		Salt River basin					
05502700	Easdale Branch near Shelbyville	Lat 39°48'17", long 92°00'27", in SE¼SW¼ sec.22, T.58 N., R.10 W., Shelby County, at culvert under Missouri State Highway 168, 1.8 mi (2.9 km) east of Shelbyville.	0.71 (1.84)	1958-69 1970-71f 1972-75	4-24-75	5.00	230
05504700	Bean Creek near Mexico	Lat 39°15'30", long 91°49'50", in NW¼SW¼ sec.29, T.52 N., R.8 W., Audrain County, at culvert under County Road J, 6.5 mi (10.5 km) north of Mexico.	3.02 (7.82)	1960-75	6-25-75	8.09	360
05506000	Youngs Creek near Mexico	Lat 39°18'39", long 91°56'51", in NW¼SW¼ sec.5, T.52 N., R.9 W., Audrain County, on downstream side of bridge on State Highway 15, 6 mi (9.7 km) upstream from mouth and 11 mi (17.7 km) north of Mexico.	67.4 (175)	1931-69‡ 1970-75	4-24-75	14.69	4,690
		Kings Lake basin					
05513600	Camp Creek near Elsberry	Lat 39°06'56", long 90°46'23", in SW portion of Survey 1724, T.50 N., R.2 E., Lincoln County, at culvert on State Highway 79, 3.6 mi (5.8 km) south of Elsberry.	1.50 (3.88)	1955-75	6-25-75	3.81	440
05513650	Hurricane Creek near Elsberry	Lat 39°06'29", long 90°46'13", in SW portion of Survey 1724, T.50 N., R.2 E., Lincoln County, at culvert on State Highway 79, 4.1 mi (6.6 km) south of Elsberry.	3.6 (7.92)	1955-75	4-25-75	9.14	2,200
		Cuivre River basin					
05513700	Mams Slough Creek near Wellsville	Lat 39°09'45", long 91°39'40", in NW¼NW¼ sec.35, T.51 N., R.7 W., Audrain County, at bridge on U.S. Highway 54, 8 mi (12.8 km) northwest of Wellsville.	5.08 (13.2)	1955-57 1961-75	4-25-75	13.14	1,110

Explanation of symbols and footnotes are at the end of list.

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	[a]Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Cuivre River basin--Continued					
05514200	Reid Branch near Bowling Green	Lat 39°15'15", long 91°02'50", in SE¼ west part of Survey No. 1685, T.52 N., R.1 W., Pike County, upstream from culvert on U.S. Highway 61, 3.9 mi (6.3 km) south of Cyrene and 10 mi (16.1 km) south of Bowling Green.	0.54 (1.40)	1955-75	4-25-75	4.75	175
		Little Tarkio Creek basin					
06815550	Staples Branch near Burlington Junction	Lat 40°26'15", long 95°12'05", in SW¼SE¼ sec.17, T.65 N., R.38 W., Atchison County, at culvert under U.S. Highway 136, about 7.3 mi (11.7 km) west of Burlington Junction.	0.49 (1.27)	1959-65 1966-71f 1972-75	4-24-75	11.62	90
		Platte River (Iowa-Missouri) basin					
06820000	White Cloud Creek near Maryville	Lat 40°23'22", long 94°54'33", in NW¼NW¼ sec.1, T.64 N., R.36 W., Nodaway County, at bridge on U.S. Highway 71, 4 mi (6.4 km) upstream from Big Slough and 4.5 mi (7.2 km) northwest of Maryville.	6.06 (15.7)	1948-70‡ 1971-75	6-11-75	7.58	284
06820300	Big Slough near Wilcox	Lat 40°23'23", long 94°55'32", on south line of SW¼ sec.35, T.65 N. R.36 W., Nodaway County, at culvert on U.S. Highway 71, 3 mi (4.8 km) southeast of Wilcox.	1.30 (3.37)	1950-75	5-8-75	4.30	510
06821130	First Creek near Nashua	Lat 39°17'20", long 94°35'05", in NW¼SW¼ sec.26, T.52 N., R.33 W., Clay County, at culvert on farm road 150 ft (45.7 m) east of U.S. Highway 169, and 1 mi (1.6 km) south of Nashua.	0.55 (1.42)	1959-65 1966-74f 1975	10-31-74	9.23	70
		Crooked River basin					
06895000	Crooked River near Richmond	Lat 39°19'58", long 93°58'46", in NW¼NW¼ sec.7, T.52 N., R.27 W., Ray County, at bridge on State Highway 13, 4.0 mi (6.4 km) north of Richmond, 8.5 mi (13.7 km) upstream from West Fork Crooked River, and 24.5 mi (39.4 km) upstream from mouth.	159 (412)	1948-70‡ 1971-75	4-24-75	23.19	3,190
		Grand River basin					
06896170	Grand River near Stanberry	Lat 40°14'30", long 94°29'12", in SE¼ sec.22, T.63 N., R.32 W., Gentry County, on downstream side of bridge on U.S. Highways 136 and 169, 2.8 mi (4.5 km) northeast of Stanberry.	-	1965-66 1967-68f 1969-75	5-30-75	13.10	10,900
06896180	DeMoss Branch near Stanberry	Lat 40°13'35", long 94°33'35", in NE¼SE¼ sec.36, T.63 N., R.33 W., Gentry County, at culvert on U.S. Highway 136, 0.8 mi (1.3 km) west of Stanberry.	0.38 (0.98)	1955-59 1960-64f 1965-75	6-25-75	16.99	242
06896190	Middle Fork Grand River near Albany	Lat 40°14'27", long 94°24'10", in SW¼SE¼ sec.21, T.63 N., R.31 W., Gentry County, on downstream side of bridge on U.S. Highway 136, 3 mi (4.8 km) west of Albany.	-	1965-66 1967-68f 1969-75	5-30-75	14.20	10,000
06896400	East Fork Grand River at Albany	Lat 40°14'55", long 94°21'37", in NW¼ sec.23, T.63 N., R.31 W., Gentry County, on downstream side of bridge on U.S. Highway 136, 0.8 mi (1.3 km) west of Albany.	-	1965-66 196768f 1969-75	5-30-75	14.51	5,850

Annual maximum discharge at crest-stage partial-record stations--Continued

					Annual maximum		
Station no.	Station name	Location	[a]Drainage area (sq mi)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Grand River basin--Continued					
06896700	O'Neill Branch at Osborn	Lat 39°45'25", long 94°20'35", in SW¼NE¼ sec.14, T.57 N., R.31 W., DeKalb County, under U.S. Highway 36, 1 mi (1.6 km) northeast of Osborn and 5.5 mi (8.8 km) northwest of Cameron.	0.80 (2.07)	1955-62 1963-66f 1967-75	4-18-75 5-29-75	14.17	105
06897200	Simpson Branch near Bethany	Lat 40°15'55", long 93°58'55", in SE¼SW¼ sec.7, T.63 N., R.27 W., Harrison County, at bridge on U.S. Highway 136, 2.3 mi (3.7 km) east of Bethany.	4.72 (12.2)	1955-70 1971-72f 1973-75	9-11-75	7.82	560
06897790	Grand River Tributary near Utica	Lat 39°44'22", long 93°38'18", in SW¼NE¼ sec. 19, T.57 N., R.24 W., Livingston County, at culvert under U.S. Highway 36, 0.2 mi (0.3 km) west of Utica.	1.44 (3.73)	1958 1960-75	5-30-75	9.38	320
06898200	Thompson River near Trenton	Lat 40°08'50", long 93°42'05", on line between SW¼ sec.22 and NW¼ sec. 27, T.62 N., R.25 W., Grundy County, 4.5 mi (7.2 km) upstream from Weldon River, 6.5 mi (10.4 km) northwest of Trenton, and 1.5 mi (2.4 km) east of Brimson.	-	1961-75	6-25-75	22.44	12,500
06898500	Weldon River near Mercer	Lat 40°32'56", long 93°36'10", in SW¼ sec.3, T.66 N., R.24 W., Mercer County, at county highway bridge, 4.2 mi (6.7 km) northwest of Mercer, and 5 mi (8.0 km) upstream from Little River.	246 (637)	1939-59‡ 1961-75	4-18-75	10.62	4,800
06898700	Weldon River below Mercer	Lat 40°29'20", long 90°35'10", in SE¼SE¼ sec.27, T.66 N., R.24 W. Mercer County, about 0.8 mi (1.3 km) below Little River, and 3 mi (4.8 km) southwest of Mercer.	427 (1106)	1963-75d	4-18-75	9.69	7,200
06899100	Weldon River near Trenton	Lat 40°08'05", long 93°38'15", in SE¼ sec.30, T.62 N., R.24 W., Grundy County, at bridge on County Highway A, 2 mi (3.2 km) northwest of Trenton.	494 (1280)	1961-75	6-25-75	15.14	11,000
06899600	West Fork Leakey Branch near Chillicothe	Lat 39°53'00", long 93°38'00", in NE¼SE¼ sec.36, T.59 N., R.24 W., Livingston County, at culvert under U.S. Highway 65, 6 mi (9.6 km) north of Chillicothe.	0.21 (0.54)	1955-71 1972-75f	5-6-75	8.22	190
06901300	Moffet Branch near Reger	Lat 40°07'53", long 93°14'30", in NW¼ sec.34, T.62 N., R.21 W., Sullivan County, at culvert under State Highway 6, 2.5 mi (4.0 km) west of Reger, and 3.8 mi (6.1 km) east of Humphreys.	0.13 (0.34)	1955-63 1964-66f 1967-75	4-23-75	4.38	150
06902800	Onion Branch at St. Catherine	Lat 39°47'46", long 92°59'17", in NE¼SE¼ sec.35, T.58 N., R.19 W., Linn County, at culvert under State Highway 11, 0.3 mi (0.5 km) northeast of St. Catherine and 5 mi (8.0 km) northeast of Brookfield.	1.04 (2.69)	1955-61 1962-66f 1967-75	4-23-75	13.88	150
06902900	East Yellow Creek near Brookfield	Lat 39°45'22", long 91°58'58", in SW¼ sec.12, T.57 N., R.19 W., Linn County, on downstream side of bridge on State Highway 5 and U.S. Highway 36, 2.3 mi (3.7 km) southeast of St. Catherine and 4.5 mi (7.2 km) southeast of Brookfield.	-	1965-75	4-23-75	12.40	5,700
		Chariton River basin					
06904300	Shoal Creek near Hartford	Lat 40°29'00", long 92°46'20", in NE¼NE¼ sec.35, T.66 N., R.17 W., Putnam County, at bridge on U.S. Highway 136, 3 mi (4.8 km) northeast of Hartford.	155 (401)	1963-75	5-8-75	17.30	3,200

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	^{5}Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Chariton River basin--Continued					
06904700	Strop Branch near Novinger	Lat 40°13'05", long 92°42'55", in NE¼SW¼ sec.32, T.63 N., R.16 W., Adair County, at culvert on county road about 1 mi (1.6 km) southwest of Novinger.	0.96 (2.49)	1955-71 1972-75f	5-7-75	15.69	1,020
06905000	Chariton River at Elmer	Lat 39°57'08", long 92°39'54", in E½ sec.3, T.59 N., R.16 W., Macon County, at bridge on County Road J, 0.8 mi (1.3 km) southwest of Elmer.	1,660 (4300)	1921-30‡ 1961-75	4-19-75	19.48	13,000
06905700	Puzzle Creek near Salisbury	Lat 39°26'30", long 92°47'30", in SW¼NW¼ sec.35, T.54 N., R.17 W., Chariton County, at culvert on State Highway 129, 0.8 mi (1.3 km) north of Salisbury.	0.80 (2.07)	1955-75	*	*	<20
		Lamine River basin					
06907200	Shaver Creek Tributary near Clifton City	Lat 38°45'29", long 93°04'25", in NE¼SW¼ sec.13, T.46 N., R.20 W., Pettis County, at culvert under State Highway 135, about 2 mi (3.2 km) southwest of Clifton City and 9.5 mi (15.2 km) northeast of Sedalia.	1.65 (4.27)	1955-61 1962-63f 1964-75	4-24-75	5.60	124
06908300	Trent Branch near Waverly	Lat 39°12'06", long 93°34'46", in SE¼NE¼ sec.19, T.51 N., R.24 W., Lafayette County, at culvert on U.S. Highway 24, 3.8 mi (6.1 km) west of Waverly.	0.97 (2.57)	1955-59 1960-62f 1963-75	*	*	<50
06908500	Shiloh Branch near Marshall	Lat 39°07'00", long 93°05'50", in NW¼ sec.15, T.50 N., R.20 W., Saline County, at culvert on State Highway 41, in front of Shiloh Church, 5.5 mi (8.8 km) east of Marshall.	2.87 (7.43)	1952-65‡ 1966-75	*	*	<100
		Bonne Femme Creek basin					
06909400	Cottonwood Creek Tributary at Estill.	Lat 39°02'55", long 92°44'38", in NW¼SW¼NE¼ sec.17, T.49 N., R.16 W., Howard County, at culvert under State Highway 5, 0.2 mi (0.03 km) north of Estill and 2 mi (3.2 km) north of New Franklin.	0.30 (0.78)	1958-75	*	*	<20
		Moniteau Creek basin					
06909500	Moniteau Creek near Fayette	Lat 39°07'15", long 92°33'40", in SE¼SE¼ sec.14, T.50 N., R.15 W., Howard County, at "Buoy" bridge, 1 mi (1.6 km) downstream from Hungry Mother Creek, 7 mi (11.2 km) east of Fayette and 15 mi (24 km) upstream from mouth.	81 (210)	1948-60 1962-69‡ 1970-75	6-23-75	19.66	4,500
		Petite Saline Creek basin					
06909700	Petite Saline Creek Tributary near Bellair	Lat 38°50'34", long 92°50'31", in SW¼NE¼ sec.13, T.47 N., R.18 W., Cooper County, at culvert under State Highway 5, at junction of highways 5 and F, 0.5 mi (0.8 km) north of Bellair and 10.5 mi (16.9 km) southwest of Boonville.	0.49 (1.27)	1955-64 1965-69f 1970-75	4-24-75	16.76	530
		Perche Creek basin					
06910200	Cow Branch near Columbia	Lat 39°00'10", long 92°19'25", in NW¼ sec.30, T.49 N., R.12 W., Boone County, at culvert under U.S. Highway 63, 2.7 mi (4.3 km) north of Columbia.	1.01 (2.62)	1955-75	8-25-75	11.46	210
		Bonne Femme Creek basin					
06910250	Traxler Branch near Columbia	Lat 38°51'15", long 92°19'45", in NE¼SE¼ sec.13, T.47 N., R.13 W., Boone County, at culvert under County Road N about 5.5 mi (8.8 km) south of Columbia.	0.55 (1.42)	1958-63f 1964-75	8-25-75	9.98	176

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	ᵃDrainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Baldwin Branch basin					
06910400	Baldwin Branch near Jefferson City	Lat 38°39'35", long 92°13'25", in SE¼SE¼ sec.24, T.45 N., R.12 W., Boone County, at culvert on U.S. Highway 63, 5.4 mi (8.7 km) northwest of Jefferson City.	0.60 (1.55)	1958-75	9-11-75	15.16	800
		Grays Creek basin					
06910430	Dicherson Creek Tributary near Jefferson City	Lat 38°34'55", long 92°16'43", in SW¼NW¼ sec. 8, T.44 N., R.12 W., Cole County, on left bank upstream from culvert under U.S. Highway 50, 0.25 mi (0.3 km) upstream from mouth, and 1.9 mi (3.1 km) west of Jefferson City.	0.10 (0.26)	1970-75	9-11-75	12.20	230
		Wears Creek basin					
06910455	Wears Creek at Jefferson City	Lat 38°33'57", long 92°13'22", in SE¼NE¼ sec.15, T.44 N., R.12 W., Cole County, on left abutment of former foot bridge, 50 ft (15 m) upstream from Frog Hollow, 0.8 mi (1.3 km) south of Jefferson City and 3 mi (4.8 km) upstream from mouth.	4.77 (12.4)	1970-75d	9-11-75	9.96	3,250
		Moreau River basin					
06910700	Hazel Branch Tributary near Wardsville	Lat 38°28'15", long 92°12'35", in NE¼SE¼ sec.14, T.43 N., R.12 W., Cole County, at culvert on county road 2.5 mi (4.0 km) southwest of of Wardsville.	0.13 (0.34)	1957-75	4-24-75	11.68	150
		Osage River basin					
06918200	North Fork Panther Creek Tributary near Appleton City	Lat 38°11'38", long 94°04'53", in SW¼NW¼ sec.2, T.39 N., R.29 W., Bates County, at culvert under State Highway 52, 0.25 mi (0.3 km) south of Hudson, 3 mi (4.8 km) west of Appleton City, and 18 mi (29.0 km) southeast of Butler.	0.08 (0.21)	1955-75	8-23-75	4.41	50
06918300	West Fork Clear Creek Tributary near Nevada	Lat 37°51'43", long 94°13'51", in SW¼SW¼ sec.27, T.36 N., R.30 W., Vernon County, at culvert under U.S. Highway 54, 0.2 mi (0.3 km) east of County Road C and 7.5 mi (12.1 km) northeast of Nevada.	0.51 (1.32)	1955-75	8-25-75	7.74	300
06918400	Pickerel Creek Tributary near Republic	Lat 37°07'09", long 93°31'28", in NW¼SE¼ sec.23, T.28 N., R.24 W., Greene County, at culvert under State Highway 174, 2.0 mi (3.2 km) west of Republic.	0.57 (1.48)	1957-61 1962f 1963-75	1-31-75	6.84	60
06918750	Franca Branch near Brighton	Lat 37°29'57", long 93°21'00", in SE¼NW¼SE¼ sec.16, T.32 N., R.22 W., Polk County, at culvert under State Highway 13, 3 mi (4.9 km) north of Brighton, and 8.7 mi (14.0 km) southeast of Bolivar.	0.59 (3.96)	1955 75	*	*	<30
06919200	Sac River Tributary near Caplinger Mills	Lat 37°48'22", long 93°51'00", in NE¼NE¼ sec.13, T.35 N., R.27 W., Cedar County, at culvert under State Highway 39, 6.2 mi (10 km) south of junction of U.S. Highway 54 and State Highway 39, 2.5 mi (4.0 km) west of Caplinger Mills and 10.5 mi (16.9 km) southeast of Eldorado Springs.	0.14 (0.36)	1955-62 1963-75	11-3-74	6.28	55
06920800	Big Muddy Creek at Lowry City	Lat 38°09'29", long 93°43'22", in SE¼NE¼ sec.12, T.39 N., R.26 W., St. Clair County, at culvert under State Highway 13, 1 mi (1.6 km) north of Lowry City.	0.31 (0.93)	1955-72 1973-75f	6-16-75	8.09	155

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	[a]Drainage area (sq mi)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft³/s)
		Osage River basin--Continued					
06921100	Olinger Creek near Buffalo	Lat 37°40'47", long 93°06'10", in NW¼SW¼SW¼ sec.11, T.34 N., R.20 W., Dallas County, at culvert under U.S. Highway 65 about 0.2 mi (0.3 km) north of County Highway Z and 2.5 mi (4.0 km) north of Buffalo.	1.96 (5.08)	1957-63 1964f 1966-75	1-31-75	8.65	470
06921400	Ferguson Branch at Nemo	Lat 37°52'50", long 93°15'30", in NE¼SE¼ sec.8, T.36 N., R.21 W., Hickory County, at culvert under County Road D, 0.5 mi (0.8 km) northeast of Nemo.	0.18 (0.47)	1957-75	*	*	<20
06921800	Grandaddy Creek near Urich	Lat 38°21'49", long 94°00'47", in NW¼NW¼SW¼ sec.10, T.41 N., R.28 W., Henry County, at culvert under State Highway K, 0.3 mi (0.5 km) north of junction of State Highway K and State Highway 18, and 6.5 mi (10.5 km) south of Urich.	0.92 (2.38)	1958-75	11-3-74	7.13	175
06922600	Little Turkey Creek Tributary near Warsaw	Lat 38°10'30", long 93°17'30", in NW¼SW¼ sec.1, T.39 N., R.22 W., Benton County, at culvert on State Highway 7, 1.5 mi (2.4 km) east of junction of State Highway 7 and U.S. Highway 65, and 5 mi (8.0 km) southeast of Warsaw.	0.18 (0.47)	1959-69 1970-75f	1-30-75	10.14	95
06922700	Chub Creek near Lincoln	Lat 38°26'12", long 93°18'07", in NW¼ sec.12, T.42 N., R.22 W., Benton County, at culvert on U.S. Highway 65, 3.4 mi (5.5 km) north of Lincoln.	2.86 (7.48)	1958-63 1964-70f 1971-75	9-11-75	21.52	885
06923000	Niangua Branch at Marshfield	Lat 37°20'50", long 92°54'45", in SE¼NE¼ sec.4, T.30 N., R.18 W., Webster County, at concrete culvert under county road at Marshfield.	0.82 (2.12)	1950-57f 1958f 1960-75	*	*	<50
06925300	Prairie Branch near Decaturville	Lat 37°52'30", long 92°42'30", in SE¼NE¼ sec.8, T.36 N., R.16 W., Laclede County, at bridge on State Highway 5, 2.4 mi (3.9 km) south of Decaturville.	1.48 (3.83)	1955-69 1970-72f 1973-75	4-24-75	9.01	165
06925450	Little Gravois Creek near Versailles	Lat 38°23'58", long 92°40'30", in NE¼SW¼ sec.17, T.42 N., R.17 W., Morgan County, at bridge on County Highway TT, and 2.5 mi (4.0 km) south of Versailles.	4.74 (12.3)	1955-75	4-24-75	13.55	1,600
06926150	Jack Buster Creek at Eugene	Lat 38°21'10", long 92°24'00", in NW¼NE¼ sec.31, T.42 N., R.13 W., Cole County, at culvert on State Highway 17 at Eugene.	0.17 (0.44)	1961-75	8-26-75	5.48	60
06926200	Van Cleve Branch near Meta	Lat 38°13'35", long 92°09'40", in SE¼NE¼ sec.8, T.40 N., R.11 W., Maries County, 20 ft (6.1 m) upstream from culvert under State Highway 133, 7 mi (11.3 km) south of Meta.	0.75 (1.94)	1957-72f 1973-75	4-24-75	6.67	660
06926800	Long Branch near Vienna	Lat 38°11'00", long 92°05'05", in SW¼NW¼ sec.30, T.40 N., R.10 W., Maries County, at culvert on State Highway 42, 7.5 mi (12.1 km) west of Vienna.	0.32 (0.83)	1958-75	4-24-75	10.82	450
06927000	Maries River at Westphalia	Lat 38°25'55", long 91°59'23", in NE¼ sec.35, T.43 N., R.10 W., Osage County, at bridge on U.S. Highway 63, 0.8 mi (1.3 km) southeast of Westphalia, 1.2 mi (1.9 km) downstream from Little Maries Creek, and at mile 9.9 (15.8 km).	257 (666)	1947-70f 1971-75	4-24-75	19.10	22,000

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	[§]Drainage area (sq mi)	Period of Record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Auxvasse Creek basin					
06927100	Doane Branch near Kingdom City	Lat 38°56'20", long 91°49'40", in NE¼ sec.17, T.48 N., R.8 W., Callaway County, at culvert on access road to Interstate Highway 70, 0.9 mi (1.5 km) east of Auxvasse Creek and about 6 mi (9.7 km) east of Kingdom City.	0.54 (1.40)	1955-59 1960-62f 1963 1965-75	4-24-75	9.43	27
		Gasconade River basin					
06927600	Wheeler Branch near Mountain Grove	Lat 37°06'52", long 92°16'37", in SW¼NE¼ sec.17, T.28 N., R.12 W., Wright County, on County Road D, 0.8 mi (1.3 km) southwest of Mountain Grove.	1.34 (3.47)	1955-75	4-25-75	4.03	305
06929000	Coyle Branch at Houston	Lat 37°19'25", long 91°57'12", in NW¼NW¼ sec.8, T.30 N., R.9 W., Texas County, at double culvert on U.S. Highway 63, at east edge of Houston.	1.10 (2.85)	1949-55‡ 1959-75	1-10-75	3.43	190
06930750	Prewett Hollow near Dixon	Lat 37°57'25", long 92°04'50", in SW¼SE¼ sec.1, T.37 N., R.11 W., Pulaski County, at culvert on County Road D, 2 mi southeast of Dixon.	0.46 (1.19)	1960-64 1966f 1967-71 1972-75f	3-11-75	10.68	130
06931000	Beaver Creek near Rolla	Lat 37°52'45", long 91°47'45", in SW¼SE¼ sec.34, T.37 N., R.8 W., Phelps County, at bridge on U.S. Highway 63, 5 mi (8.0 km) south of Rolla.	13.7 (35.5)	1949-58‡ 1960-75	2-22-75	4.10	2,110
06931600	Paulsell Branch near Rolla	Lat 37°55'15", long 91°49'40", in NW¼NE¼ sec.20, T.37 N., R.8 W., Phelps County, at culvert on St. Louis-San Francisco RR, 0.8 mi (1.3 km) above confluence with Little Beaver Creek and 3.5 mi (5.6 km) southwest of Rolla.	2.33 (6.03)	1949-75	1-10-75	2.40	1,170
06933700	Penzer Hollow near Rolla	Lat 38°00'40", long 91°50'05", in NE¼NW¼ sec.20, T.38 N., R.8 W., Phelps County, at culvert on County Highway E, 5.0 mi (8.0 km) north of Rolla.	0.27 (0.70)	1956-64 1966f 1967-75	3-11-75	17.00	150
		Loutre River basin					
06934600	Rumbo Branch at Danville	Lat 38°55'00", long 91°32'03", in SW¼NE¼ sec.24, T.48 N., R.6 W., Montgomery County, at culvert on State Highway 161, 0.5 mi (0.8 km) north of Danville.	1.40 (3.63)	1954-58‡ 1959-75	4-23-75	5.96	393
		Little Berger Creek basin					
06934750	Little Berger Creek Tributary near Hermann	Lat 38°40'10", long 91°22'25", in NW¼NE¼ sec.9, T.45 N., R.4 W., Gasconade County, at culvert on State Highway 100, 4 mi (6.4 km) southeast of Hermann.	0.25 (0.65)	1955-70 1971-75f	7-6-75	14.43	71
		Bonhomme Creek basin					
06935800	Shotwell Creek near Ellisville	Lat 38°37'05", long 90°35"00", in NW¼NW¼ sec.28, T.45 N., R.4 E., St. Louis County, at culvert on State Highway 340, 1.8 mi (2.9 km) north of Ellisville.	0.81 (2.10)	1960-62 1963-75f	1-10-75	6.38	333
		Meramec River basin					
07011200	Love Creek near Salem	Lat 37°38'10", long 91°33'35", in W¼NE¼ sec.23, T.34 N., R.6 W., Dent County, at culvert under State Highways 32 and 72, 0.5 mi (0.8 km) west of Salem.	0.89 (2.13)	1955-59 1960-63f 1964-75	4-29-75	5.11	152

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	[a]Drainage area (sq mi)	Period of record	Annual maximum Date	Annual maximum Gage height (feet)	Annual maximum Discharge (ft^3/s)
		Meramec River basin--Continued					
07011300	Ragan Branch near Rolla	Lat 37°49'05", long 91°41'45", in NE¼NE¼ sec.28, T.36 N., R.7 W., Phelps County, at bridge on State Highway 72, 3 mi (4.8 km) northwest of Lake Spring and 9 mi (14.5 km) southeast of Rolla.	6.58 (17.0)	1949-75	2-22-75	1.67	120
07012000	Behmke Branch near Rolla	Lat 37°56'05", long 91°42'35", in NE¼NE¼ sec.17, T.37 N., R.7 W., Phelps County, 300 ft (91.4 m) upstream from county highway bridge and 3.5 mi (5.6 km) southeast of Rolla.	1.05 (2.72)	1945-49‡ 1960-75	2-22-75	3.08	959
07015700	Lanes Fork near Vichy	Lat 38°06'15", long 91°42'45", in SW¼NE¼ sec.17, T.39 N., R.7 W., Maries County, at bridge on State Highway 68, 2.5 mi (4.0 km) east of Vichy.	24.1 (62.4)	1944-45 1948-75	4-24-75	10.78	7,490
07015800	Langenberg Branch near Rosebud	Lat 38°23'03", long 91°25'41", in SE¼NE¼ sec.13, T.42 N., R.5 W., Gasconade County, at culvert under State Highway 28, 1.7 mi west of Rosebud.	0.64 (1.66)	1960-64 1966-70f 1971-75	4-24-75	10.05	240
07017700	Fountain Farm Branch near Potosi	Lat 37°58'20", long 90°43'40", in SE¼NE¼ sec.32, T.38 N., R.3 E., Washington County, at culvert under County Highway E, about 4 mi (6.4 km) northeast of Potosi.	2.16 (5.59)	1957-75	1-10-75	14.14	750
		Plattin Creek basin					
07019820	Murphy Branch near Crystal City	Lat 38°11'12", long 90°23'46", in NW portion of Missouri Survey No. 1995, T.40 N., R.6 E., Jefferson County, at culvert under U.S. Highway 61, and 2.5 mi (4.0 km) southwest of Crystal City.	0.45 (1.14)	1955-60 1961-63f 1964-75	1-10-75	7.42	181
		Apple Creek basin					
07020700	Hoehs Branch near Uniontown	Lat 37°37'50", long 89°43'50", in SW¼SE¼ sec.20, T.34 N., R.12 E., Perry County, on bridge on U.S. Highway 61, 1.2 mi (1.9 km) north of Uniontown.	1.66 (4.03)	1955-75	7-6-75	9.53	155
		Headwater diversion channel basin					
07021200	Sunnybrook Creek at Lutesville	Lat 37°17'05", long 89°58'55", in NW¼SE¼ sec.7, T.30 N., R.10 E., Bollinger County, on bridge under State Highway 51, 0.5 mi (0.8 km) south of Lutesville.	0.52 (1.35)	1955-75	7-6-75	2.52	240
		St. Francis River basin					
07033000	Wolf Creek near Farmington	Lat 37°45'45", long 90°23'15", in SE¼ sec.5, T.35 N., R.6 E. St. Francois County, at bridge on County Highway 00, 1.5 mi (0.8 km) southeast of Farmington.	40.3 (104)	1940‡ 1955-75	3-28-75	15.55	4,200
07038000	Clark Creek at Patterson	Lat 37°11'25", long 90°32'20", in NE¼ sec.18, T.29 N., R.5 E., Wayne County, at bridge on State Highway 34, 0.6 mi (1.0 km) east of Patterson.	37.5 (97.1)	1940‡ 1955-75	5-6-75	10.39	6,600
0704110	Delaware Creek Tributary near Bloomfield	Lat 36°51'35", long 89°56'10", in NW¼NE¼ sec.35, T.26 N., R.10 E., Stoddard County, at culvert under State Highway 25, 1.8 mi (2.9 km) southwest of Bloomfield.	0.38 (0.98)	1955-71 1972-75f	2-23-75	15.42	260
		White River basin					
07050800	Maple Grove Branch near Ozark	Lat 37°04'20", long 93°13'05", in SW¼NE¼ sec.3, T.27 N., R.21 W., Christian County, at culvert under County Highway NN, 3.4 mi (5.5 km) north of Ozark.	0.64 (1.66)	1957-65 1966-71f 1972-75	*	*	<30

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	[a]Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft³/s)
		White River basin--Continued					
07052700	Brawley Hollow near Cassville	Lat 36°38'50", long 93°54'15", in NE¼SE¼ sec.1, T.22 N., R.28 W., Barry County, at culvert under State Highway 37, 3.1 mi (5.0 km) southwest of Cassville.	2.61 (6.76)	1960-66 1967-75f	11-3-74	19.25	960
07053950	Ingenthron Hollow near Forsyth	Lat 36°43'52", long 93°07'30", in SW¼NE¼ sec.17, T.24 N., R.20 W., Taney County, at culvert under County Road H, 2 mi (3.2 km) north of Forsyth.	0.65 (1.68)	1957-62 1963-66f 1967-75	11-3-74	16.23	370
07054100	Cedar Hollow at Bradleyville	Lat 36°46'45", long 92°55'25", in NE¼SW¼ sec.10, T.24 N., R.18 W., Taney County, at culvert under State Highway 76, 0.8 mi (1.3 km) southwest of Bradleyville.	0.83 (2.15)	1957-75	11-3-74	5.48	225
07054200	Yandell Branch near Kirbyville	Lat 36°36'36", long 93°05'47", in SW¼ sec.27, T.23 N., R.20 W., Taney County, at culvert on County Road K, 2.8 mi (4.5 km) southeast of Kirbyville.	0.33 (0.85)	1955-66 1967-72f 1973-75	11-3-74	c	*
07054300	Gray Branch at Lutie	Lat 36°35'05", long 92°42'30", in NE¼SW¼ sec.15, T.22 N., R.16 W., Ozark County, at culvert under U.S. Highway 160, 1.7 mi (2.7 km) west of Lutie.	0.23 (0.60)	1955-59 1960-62f 1963-71 1973-75	11-3-75	13.26	204
07061800	Brawley Hollow near Centerville	Lat 37°20'59", long 90°58'14", in SE¼NW¼ sec.29, T.31 N., R.1 E., Reynolds County, at culvert under State Highway 21, about 6 mi (9.6 km) south of Centerville.	1.00 (2.59)	1955-75	3-29-75	4.82	190
07066800	Sycamore Creek near Winona	Lat 37°02'45", long 91°19'30", in S½SW¼ sec.31, T.28 N., R.3 W., Shannon County, at culvert under State Highway 19, about 3 mi (4.8 km) north of Winona.	0.88 (2.28)	1955-64 1966-71f 1972-75	11-4-74	4.32	124
07068200	North Prong Little Black River at Hunter	Lat 36°53'25", long 90°50'30", in NE¼SE¼ sec.21, T.26 N., R.2 E., Carter County, at culvert under State Highway 21, at Hunter.	1.23 (3.18)	1958-64 1966-71f 1972-75	3-29-75	10.86	75
07068500	Little Black River near Fairdealing	Lat 36°39'40", long 90°34'25", in NW¼NW¼ sec.7, T.23 N., R.5 E. Ripley County, at bridge on U.S. Highway 160, 2.5 mi (4.0 km) east of Fairdealing.	187 (484)	1940-42‡ 1955-75	3-29-75	20.84	13,500
07069100	Adams Branch near West Plains	Lat 36°41'35", long 91°48'06", in SE¼NW¼ sec.1, T.23 N., R.8 W., Howell County, at culvert under U.S. Highway 63, 4 mi (6.4 km) southeast of West Plains.	2.27 (5.88)	1955-70 1971-75f	2-22-75	4.92	325
07070200	Burnham Branch near Willow Springs	Lat 36°56'00", long 91°56'00", in NW¼NE¼ sec.16, T.26 N., R.9 W., Howell County, at culvert under U.S. Highway 63, 4.5 mi (7.2 km) southeast of Willow Springs.	1.27 (3.29)	1955-72 1973-75f	4-24-75	15.03	4.85
07071800	Williams Spring Branch near Alton	Lat 36°40'35", long 91°20'10", in SE¼SW¼ sec.6, T.23 N., R.3 W., Oregon County, on bridge on U.S. Highway 160 and 4 mi (6.4 km) east of Alton.	4.24 (11.0)	1954-75	3-28-75	12.29	190
		Arkansas River basin					
07185600	South Fork Stahl Creek near Miller	Lat 37°11'15", long 93°50'25", in NE¼NE¼ sec.35, T.29 N., R.27 W., Lawrence County, at culvert on State Highway 39, 2 mi (3.2 km) south of Miller.	0.94 (2.43)	1951-70 1971-75f	11-3-74	2.33	100

Annual maximum discharge at crest-stage partial-record stations--Continued

Station no.	Station name	Location	[g]Drainage area (sq mi)	Period of record	Annual maximum Date	Gage height (feet)	Discharge (ft³/s)
		Arkansas River basin--Continued					
07185900	O'Possum Creek at Jasper	Lat 37°19'20", long 94°18'09", in NE¼NE¼ sec.26, T.30 N., R.31 W., Jasper County, on wingwall of bridge on U.S. Highway 71, just south of Jasper.	9.67 (25.0)	1955-70 1971-75f	1-30-75	14.90	1,600
07186950	North Fork Carver Branch at Diamond	Lat 36°59'45", long 94°19'50", in SW¼SW¼ sec.4, T.26 N., R.31 W., Newton County, at culvert under County Road V, 0.8 mi (1.3 km) west of Diamond.	0.33 (0.85)	1955-60 1961-66f 1967-75	5-28-75	7.57	76

* Not determined.
‡ Operated as a continuous-record gaging station.
c Gage recorded backwater
f Discharge measurements, daily gage-height, and rainfall records available.
g Figures of drainage area in parentheses are in square kilometres (km²).

SECTION 2. WATER QUALITY RECORDS

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DES MOINES RIVER BASIN

05490600 DES MOINES RIVER AT ST. FRANCISVILLE, MO.
(National Stream Quality Accounting Network Station)

LOCATION.--Lat 40°27'45", long 91°34'00", Clark County, at bridge on County Highway B at St. Francisville, and 8 mi (12.9 km) upstream from Sugar Creek.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 01...	1350	960	1.9	50	10	55	31	20	3.8	196	4	100
NOV. 04...	1400	4080	6.8	550	0	70	22	16	5.2	156	0	140
DEC. 03...	1300	4310	5.6	20	20	72	26	26	3.9	236	4	95
JAN. 14...	1520	2900	13	310	30	97	35	27	4.1	268	24	160
FEB. 26...	1500	3690	7.3	50	160	62	20	15	5.1	172	0	80
MAR. 24...	1500	20700	6.8	80	60	39	10	6.8	4.1	136	0	36
APR. 24...	1300	19500	14	40	10	67	20	8.3	3.1	210	0	63
MAY 27...	1530	21000	12	1900	10	77	25	9.7	3.1	234	0	66
JUNE 24...	1545	19300	14	30	0	65	19	6.7	2.9	196	0	39
JULY 29...	1500	2920	9.4	40	20	43	30	14	2.8	136	12	86
AUG. 20...	1340	1750	4.7	60	0	39	29	17	3.6	130	8	110
SEP. 23...	1415	1610	8.6	--	--	66	22	16	4.4	180	16	85

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	SUS-PENDED SEDI-MENT (MG/L)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT. 01...	590	8.5	8	--	14.0	14	--	9.8	96	4	4
NOV. 04...	560	8.1	--	120	10.5	--	16	8.6	77	690	700
DEC. 03...	640	8.4	20	20	.0	19	--	9.0	62	140	80
JAN. 14...	840	8.7	--	18	.0	--	16	14.1	97	44	140
FEB. 26...	560	7.8	80	264	.0	32	--	10.6	73	1100	2900
MAR. 24...	320	7.9	0	642	2.5	50	--	10.0	74	1600	12000
APR. 24...	570	8.1	15	1600	13.0	37	--	10.1	95	7100	4900
MAY 27...	590	8.2	--	1750	21.0	--	5.	7.8	87	3000	2200
JUNE 24...	480	8.0	20	279	26.0	21	--	6.8	83	850	920
JULY 29...	505	8.8	8	97	29.0	30	--	15.6	203	36	520
AUG. 20...	510	8.6	--	60	30.5	--	10	8.0	102	42	360
SEP. 23...	545	8.6	--	39	18.0	--	--	11.2	117	44	68

05490600 DES MOINES RIVER AT ST. FRANCISVILLE, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: August 1967 to September 1975.

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 01...	22	.3	.20	.10	.79	.01	.06	351	270	90	147
NOV. 04...	15	.3	--	--	--	--	.10	361	270	140	130
DEC. 03...	29	.3	1.4	.06	1.0	.11	.29	381	290	87	203
JAN. 14...	30	.4	--	--	--	--	.10	499	390	140	243
FEB. 26...	17	.2	1.6	.50	1.0	.09	.26	317	240	96	141
MAR. 24...	9.4	.4	1.8	.50	1.7	.02	.44	191	140	27	112
APR. 24...	17	.3	6.0	.00	2.1	.09	.36	335	250	77	172
MAY 27...	19	.4	--	--	--	--	.22	376	300	108	192
JUNE 24...	14	.4	8.8	.01	.75	.13	.19	319	240	80	161
JULY 29...	22	.4	3.2	.13	1.6	.01	.13	293	230	99	132
AUG. 20...	25	.4	--	--	--	--	.11	290	220	97	120
SEP. 23...	10	.3	--	--	--	--	.15	341	260	81	179

05490600 DES MOINES RIVER AT ST. FRANCISVILLE, MO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
NOV.											
04...	1400	<1	0	2	3	2	.0	0	20	2	10
JAN.											
14...	1420	1	0	1	2	6	.1	1	20	4	0
MAY											
27...	1530	0	0	1	3	1	.4	3	0	2	<10
AUG.											
29...	1240	0	10	0	2	2	.1	2	10	1	10

DATE	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)
NOV.										
04...	0	<50	<10	920	<100	180	.1	1	70	4
JAN.										
14...	10	<50	460	490	<100	120	.0	1	40	4
MAY										
27...	10	<50	20	4100	<100	100	.0	3	140	6
AUG.										
29...	10	<50	10	370	<100	130	.1	2	40	1

05490600 DES MOINES RIVER AT ST. FRANCISVILLE, MO.--Continued

PHYTOPLANKTON, CODOMINANT GENERA, OCTOBER 1974 TO SEPTEMBER 1975

Date	Total Cells	Organism	Percent	Organism	Percent	Organism	Percent
Oct. 1, 1974	25,000	Scenedesmus	38	Crucigenia	38		
Nov. 4	20,000	Cyclotella	31	Scenedesmus	16		
Dec. 3	45,000	Cyclotella	78				
Jan. 14, 1975	59,000	Cyclotella	99				
Feb. 26	3,900	Cyclotella	46	Navicula	22		
Mar. 24	2,300	Cyclotella	38	Navicula	19		
Apr. 24	2,400	Cyclotella	28	Scenedesmus	22	Navicula	16
May 27	11,000	Cyclotella	56	Melosira	27		
June 24	1,400	Oscillatoria	37	Scenedesmus	23	Coelastrum	16
July 29	200,000	Cyclotella	44	Gomphonema	18		
Aug. 20	230,000	Cyclotella	36	Dictyosphaerium	30		
Sept. 23	36,000	Cyclotella	75				

PERIPHYTON, NOVEMBER 1974 TO MAY 1975

Date	Length of exposure (days)	Biomass (g/m²)		Chlorophyll a (mg/m²)	Chlorophyll b (mg/m²)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Nov. 4, 1974	34	52	49	6.3	1.7	370	Polyethylene strip
Mar. 24, 1975	26	0.9	0.5	0.2	0.1	2,000	Polyethylene strip
May 27	33	18	17	12	2.1	120	Polyethylene strip

05495150 MISSISSIPPI RIVER AT CANTON, MO.

LOCATION.--Lat 40°07'51", long 91°30'49", Lewis County, City of Canton Water Treatment Plant in Canton.

PERIOD OF RECORD.--Chemical analyses: May 1969 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.												
01...	1520	1.1	70	50	42	22	11	2.2	204	0	34	14
NOV.												
04...	1620	1.1	20	40	49	18	12	2.7	212	0	42	15
DEC.												
03...	1445	1.6	40	20	50	19	12	2.8	196	10	37	17
JAN.												
14...	1415	6.2	140	50	57	23	13	2.6	222	6	44	17
FEB.												
26...	1645	8.0	60	190	49	20	13	3.1	196	0	40	17
MAR.												
24...	1610	6.8	110	120	37	12	6.5	4.3	136	0	28	10
APR.												
24...	1515	11	40	10	54	17	8.8	3.0	192	0	45	14
MAY												
27...	1645	7.6	70	20	57	19	8.6	3.0	188	0	44	14
JUNE												
24...	1915	11	40	10	56	17	7.2	2.7	188	0	33	13
JULY												
29...	1630	7.2	20	20	44	20	8.7	2.4	182	4	33	13

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.											
01...	28	167	430	8.0	8	16.0	31	8.5	86	18000	720
NOV.											
04...	23	174	405	8.1	20	12.5	20	8.3	78	1200	3500
DEC.											
03...	26	177	470	8.7	30	2.5	20	11.1	82	940	140
JAN.											
14...	45	192	500	8.5	30	1.0	10	11.6	82	400	300
FEB.											
26...	44	161	480	7.8	40	1.5	20	11.0	79	950	950
MAR.											
24...	28	112	310	7.6	100	5.0	62	9.3	73	3500	8900
APR.											
24...	47	157	450	8.2	35	14.0	30	8.8	85	3000	2900
MAY											
27...	66	154	485	7.9	25	22.5	42	6.4	73	7000	7000
JUNE											
24...	51	154	450	7.4	20	26.5	30	5.6	69	4000	50000
JULY											
29...	36	156	409	8.5	25	28.5	28	6.6	85	2200	2400

05495150 MISSISSIPPI RIVER AT CANTON, MO.--Continued

REMARKS.--No discharge records available.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	HARD-NESS (CA,MG) (MG/L)
OCT.											
01...	.2	.00	.21	.09	.11	.22	230	.32	.3	11	200
NOV.											
04...	.2	.37	.26	.78	.09	.20	263	.36	.4	12	200
DEC.											
03...	.2	.12	.06	1.2	.07	.24	244	.33	.4	11	200
JAN.											
14...	.1	.00	.01	1.4	.10	.21	294	.40	.4	11	260
FEB.											
25...	.2	1.7	.09	.81	.14	.31	261	.36	.4	12	200
MAR.											
24...	.7	1.8	.08	2.5	.06	.66	181	.25	.2	9	140
APR.											
24...	.2	4.1	.02	2.6	.09	10	266	.36	.3	8	200
MAY											
27...	.3	3.6	.02	1.7	.06	.30	284	.39	.3	8	220
JUNE											
24...	.3	6.1	.03	1.6	.12	.33	278	.38	.2	7	200
JULY											
29...	.2	.05	.08	1.4	.07	.23	237	.32	.3	9	190

05501000 NORTH RIVER AT PALMYRA, MO.

LOCATION.--Lat 39°49'06", long 91°31'13", in SE¼SW¼ sec.13, T.58 N., R.6 W., Marion County, at highway bridge on dual U.S. Highways 24 and 61, 0.5 mi (0.8 km) north of Palmyra, and 7 mi (11.3 km) upstream from mouth.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
01...	1440	18	6.6	70	90	61	12	11	3.0	192	0	53
DEC.												
03...	1400	73	6.0	40	790	63	12	11	3.0	208	0	61
FEB.												
26...	1330	413	6.3	100	120	41	8.8	6.0	2.9	104	0	46
APR.												
24...	1100	11800	5.9	1100	130	19	3.2	4.8	3.7	62	0	17
JUNE												
25...	0940	879	5.6	130	0	20	2.7	3.1	3.5	68	0	16

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
01...	200	44	157	435	8.3	5	14.0	20	11.2	108	880	180
DEC.												
03...	210	36	171	495	8.1	8	1.0	15	8.6	61	750	1150
FEB.												
26...	140	53	85	331	7.2	100	1.0	14	12.1	85	250	600
APR.												
24...	61	10	51	142	7.4	70	14.0	120	8.8	85	79000	80000
JUNE												
25...	61	5	56	198	7.3	240	23.0	130	6.0	69	59000	34000

05501000 NORTH RIVER AT PALMYRA, MO.--Continued

DRAINAGE AREA.--373 mi² (966 km²).

PERIOD OF RECORD: Chemical analyses: August 1972 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.												
01...	7.0	.2	.04	.20	.79	.06	.10	266	.36	12.9	.3	10
DEC.												
03...	12	.0	.35	.21	.31	.16	.14	297	.40	10.6	.3	10
FEB.												
26...	6.7	.1	1.4	.08	.55	.05	.15	194	.26	210	.3	8
APR.												
24...	4.2	.2	.10	.22	4.4	.25	.71	118	.16	3570	.3	14
JUNE												
25...	3.3	.2	1.1	.08	4.0	.05	.10	111	.15	263	.2	9

05508000 SALT RIVER NEAR NEW LONDON, MO.

LOCATION.--Lat 39°36'44", long 91°24'30", NE¼NW¼ sec.36, T.56 N., R.5 W., Ralls County, at gaging station on left bank 180 ft (54.9 m) upstream from upstream bridge on dual U.S. Highway 61, 2 mi (3.2 km) north of New London, 8 mi (12.9 km) upstream from Spencer Creek and at mile 35.5 (57.1 km).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
02...	0930	52	7.1	60	180	38	6.6	11	3.8	116	0	34
NOV.												
05...	0930	7330	5.2	700	350	22	3.8	7.2	5.7	58	0	23
DEC.												
04...	0950	170	9.3	40	460	52	9.3	14	5.0	135	0	47
JAN.												
14...	1245	1000	10	70	70	43	8.4	15	4.3	112	0	61
FEB.												
26...	1220	3170	6.6	110	120	28	5.7	6.3	3.5	64	0	35
MAR.												
26...	1235	900	7.4	70	100	40	7.4	9.3	3.5	110	0	50
APR.												
25...	0820	44000	4.4	150	10	14	2.2	4.9	3.0	44	0	15
MAY												
27...	1330	1370	6.6	60	20	46	7.9	11	3.8	142	0	46
JUNE												
25...	0920	1410	5.2	270	0	21	3.7	4.4	4.3	64	0	18
JULY												
29...	1220	35	6.3	20	450	48	9.8	17	4.6	176	0	28

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
02...	120	27	95	295	7.7	50	12.5	24	8.8	82	200	40
NOV.												
05...	71	23	48	177	7.4	80	9.5	83	8.3	72	75000	95000
DEC.												
04...	170	57	111	392	7.9	60	.0	17	13.0	89	60	30
JAN.												
14...	140	50	92	400	7.8	200	.0	27	13.0	89	400	2000
FEB.												
26...	93	41	53	232	7.6	70	1.0	22	12.0	85	300	1600
MAR.												
26...	130	40	90	320	7.7	40	10.0	23	9.8	87	50	50
APR.												
25...	44	8	36	112	7.1	70	15.0	130	7.8	77	29500	36000
MAY												
27...	150	31	116	335	7.7	35	24.0	37	6.1	72	1200	1600
JUNE												
25...	68	15	53	175	7.3	210	25.0	54	5.0	60	2300	2800
JULY												
29...	160	16	144	420	7.7	10	28.0	19	4.5	57	50	170

05508000 SALT RIVER NEAR NEW LONDON, MO.--Continued

DRAINAGE AREA.--2,480 mi² (6,423 km²).

PERIOD OF RECORD.--Chemical analyses: August 1967 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT. 02...	12	.3	.46	.17	.83	.04	.20	177	.24	24.0	.4	16
NOV. 05...	8.5	.2	.01	.15	2.9	.05	.75	124	.17	2450	.4	17
DEC. 04...	15	.1	.00	.03	.62	.03	.10	245	.33	112	.5	15
JAN. 14...	16	.1	1.8	.10	1.4	.08	.22	241	.33	651	.5	18
FEB. 26...	6.6	.1	1.7	.22	1.1	.03	.26	156	.21	1340	.3	12
MAR. 24...	8.2	.3	1.5	.03	.71	.02	.14	198	.27	481	.4	13
APR. 25...	4.5	.2	.08	.30	4.8	.02	.50	77	.10	9150	.3	18
MAY 27...	6.9	.3	.59	.17	2.4	.00	.18	216	.29	799	.4	16
JUNE 25...	5.0	.3	1.4	.07	1.1	.05	.19	110	.15	419	.2	12
JULY 29...	21	.3	.00	.04	.92	.01	.13	233	.32	22.0	.4	18

05514500 CUIVRE RIVER NEAR TROY, MO.

LOCATION.--Lat 39°00'59", long 90°59'00", in SE¼ sec.14, T.49 N., R.1 W., Lincoln County, at highway bridge on U.S. Highway 61, 1.2 mi (1.9 km) downstream from confluence of North and West Forks, and 2 mi (3.2 km) north of Troy.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV. 05...	1040	600	6.9	50	290	50	7.7	6.5	4.7	176	0	22
JAN. 14...	1045	370	5.8	130	110	37	6.7	5.3	4.5	120	0	26
MAR. 24...	1100	720	7.4	90	120	46	7.6	7.7	3.1	142	0	34
MAY 27...	1130	345	5.8	110	30	39	6.0	6.4	4.1	130	0	22
JULY 29...	1020	3.5	8.7	30	850	62	12	7.7	3.6	221	0	22

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
NOV. 05...	160	12	144	282	7.8	20	10.0	19	8.6	76	80000	128000
JAN. 14...	120	22	98	318	7.6	200	.0	26	9.4	64	1500	7200
MAR. 24...	150	30	116	327	7.6	70	11.5	49	9.3	85	24200	13200
MAY 27...	120	15	107	274	7.6	130	21.0	64	7.4	82	38000	37000
JULY 29...	200	23	181	450	7.5	15	28.0	15	5.4	68	140	120

05514500 CUIVRE RIVER NEAR TROY, MO.--Continued

DRAINAGE AREA.--903 mi² (2,339 km²).

PERIOD OF RECORD.--Chemical analyses: July 1972 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
NOV.												
05...	8.0	.2	.30	.25	.64	.09	.28	203	.28	329	.2	9
JAN.												
14...	9.1	.3	2.0	.16	.52	.07	.25	192	.26	192	.2	8
MAR.												
24...	9.7	.3	1.9	.11	1.3	.03	.18	204	.28	397	.3	10
MAY												
27...	6.4	.3	1.5	.22	4.2	.03	.32	175	.24	163	.3	19
JULY												
29...	8.9	.3	.07	.17	.64	.01	.12	240	.33	2.27	.2	7

05587550 MISSISSIPPI RIVER BELOW ALTON, ILL.
(National Stream Quality Accounting Network Station)

LOCATION.--Lat 38°51'41", long 90°08'15", Madison County, 3.0 mi (4.8 km) downstream from gaging station, 4.7 mi (7.6 km) upstream from Missouri River and at mile 199.7 (321.3 km) upstream from Ohio River.

DRAINAGE AREA.--171,500 mi² (444,200 km²), approximately above gaging station.

PERIOD OF RECORD.--Chemical analyses: October 1974 to September 1975.
Water temperatures: October 1974 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.											
07...	1000	33500	--	--	--	--	--	--	--	204	0
21...	1400	37200	--	--	--	--	--	--	--	208	0
NOV.											
04...	1330	86700	--	--	--	--	--	--	--	212	0
14...	1000	75800	--	--	--	--	--	--	--	--	--
DEC.											
02...	1050	54100	--	--	--	--	--	--	--	234	0
16...	1100	66800	--	--	--	--	--	--	--	190	0
30...	1200	70600	--	--	--	--	--	--	--	234	4
JAN.											
13...	1100	76800	--	--	--	--	--	--	--	196	0
27...	1400	96100	36	70	10	58	22	14	2.5	215	0
FEB.											
11...	1100	71400	--	--	--	--	--	--	--	206	8
26...	1200	120000	7.0	--	--	42	16	13	2.7	156	0
MAR.											
11...	1200	117000	--	--	--	--	--	--	--	172	0
26...	1300	210000	8.3	--	--	36	15	9.8	3.8	152	0
APR.											
07...	1200	201000	--	--	--	--	--	--	--	152	0
22...	1100	294000	8.2	170	10	50	18	12	3.0	181	0
MAY											
06...	1330	257000	--	--	--	--	--	--	--	164	0
20...	1200	283000	7.8	--	--	41	16	8.1	3.1	144	--
JUNE											
03...	1030	158000	--	--	--	--	--	--	--	--	--
17...	1200	132000	6.0	360	40	50	20	11	2.6	206	0
JULY											
08...	1200	177000	9.8	--	--	54	19	10	3.1	176	0
AUG.											
12...	1200	42200	.3	--	--	47	20	13	2.7	196	4
SEP.											
08...	1230	60500	4.2	30	0	45	17	16	3.7	172	0

05587550 MISSISSIPPI RIVER BELOW ALTON, ILL.--Continued

EXTREMES, 1974-75.--Specific conductance: Maximum, 630 micromhos Apr. 17; minimum, 360 micromhos Sept. 23. Water temperature: Maximum, 30.0°C July 4, 5; minimum, 1.0°C Feb. 16.

REMARKS.--Records of discharge are given for gaging station 05587500 at Alton. Daily specific conductance and temperature measurements were made on samples collected from the raw water intake at Illinois Power and Light Company and may not be representative of the stream cross section.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.										
07...	--	--	--	--	--	--	--	--	--	167
21...	--	--	--	--	--	--	--	--	--	171
NOV.										
04...	--	--	--	--	--	--	--	--	--	176
14...	--	--	--	--	--	--	--	--	--	--
DEC.										
02...	--	--	--	--	--	--	--	--	--	146
16...	--	--	--	--	--	--	--	--	--	156
30...	--	--	--	--	--	--	--	--	--	190
JAN.										
13...	--	--	--	--	--	--	--	--	--	161
27...	44	20	2.0	--	--	.53	300	240	44	176
FEB.										
11...	--	--	--	--	--	--	--	--	--	188
26...	48	18	.2	--	--	.19	246	170	63	128
MAR.										
11...	--	--	--	--	--	--	--	--	--	161
26...	29	14	.2	--	--	.42	221	150	27	125
APR.										
07...	--	--	--	--	--	--	--	--	--	125
22...	42	19	.2	--	--	.50	278	200	51	148
MAY										
06...	--	--	--	--	--	--	--	--	--	136
20...	36	13	.2	--	--	.17	228	170	50	118
JUNE										
03...	--	--	--	--	--	--	--	--	--	--
17...	44	17	.3	--	--	.29	280	210	40	167
JULY										
08...	37	15	.2	.02	1.6	.30	253	210	60	144
AUG.										
12...	53	19	.2	.00	1.1	.22	274	200	30	167
SEP.										
08...	36	20	.3	.00	1.0	.25	295	180	12	141

05587550 MISSISSIPPI RIVER BELOW ALTON, ILL.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	SUSPENDED SEDIMENT (MG/L)	TEMPERATURE (DEG C)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT.										
07...	410	--	--	14.0	--	--	10.0	96	--	--
21...	470	7.7	--	14.0	--	--	9.6	92	--	--
NOV.										
04...	480	8.3	--	13.0	--	--	8.7	82	--	--
14...	495	7.3	--	7.5	--	--	10.4	87	120	--
DEC.										
02...	550	8.3	--	4.5	--	--	12.8	98	--	--
16...	450	8.3	--	2.0	--	--	12.2	88	200	--
30...	610	9.4	--	2.0	--	--	16.0	116	120	--
JAN.										
13...	560	8.3	--	1.5	--	--	10.8	77	1500	--
27...	540	7.9	90	4.0	--	8.8	12.8	98	270	--
FEB.										
11...	600	8.6	--	1.0	--	--	14.2	100	100	--
26...	430	8.0	478	4.0	--	--	12.8	98	140	400
MAR.										
11...	460	9.0	--	3.0	--	--	12.6	93	100	--
26...	350	7.4	--	8.0	--	--	9.2	74	530	200
APR.										
07...	405	7.5	--	10.0	--	--	11.0	97	130	--
22...	480	7.7	33	13.0	--	17	7.6	72	67	810
MAY										
06...	380	7.6	--	17.5	--	--	8.8	92	110	--
28...	410	--	572	23.0	--	--	8.4	97	110	110
JUNE										
03...	460	--	--	26.0	--	--	7.6	93	--	--
17...	500	8.1	420	24.0	--	15	8.2	96	2100	1800
JULY										
08...	440	8.0	441	31.5	32	--	6.6	89	1100	--
AUG.										
12...	460	8.7	38	33.5	26	--	9.2	112	190	92
SEP.										
05...	430	8.9	60	27.5	21	8.3	7.8	97	130	240

05587550 MISSISSIPPI RIVER BELOW ALTON, ILL.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
JAN. 27...	1400	1	0	1	11	4	.3	0	20	3	10
APR. 22...	1100	2	0	0	5	10	.2	1	20	0	20
JUNE 17...	1200	3	10	2	9	39	.0	1	50	1	<10
SEP. 08...	1230	1	0	0	10	4	.0	0	20	2	<10

DATE	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)
JAN. 27...	40	<50	70	4900	<100	230	.0	1	40	4
APR. 22...	20	<50	30	15000	100	540	.2	1	100	31
JUNE 17...	20	<50	40	11000	<100	490	.0	1	130	11
SEP. 08...	20	50	30	2000	<100	130	--	0	20	2

MISSISSIPPI RIVER BELOW ALTON, ILL.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL.	AUG	SEP
1	480	490	535	580	510	500	440	560	530	480	460	515
2	480	550	505	570	535	---	480	540	500	480	470	490
3	540	540	580	565	545	540	500	540	510	495	480	520
4	500	540	540	---	560	550	520	520	510	500	460	535
5	590	560	540	---	580	550	540	520	530	520	460	535
6	480	580	545	545	590	540	520	520	540	500	470	500
7	480	545	555	545	620	540	550	510	---	460	490	---
8	520	510	550	565	---	---	570	500	530	440	480	480
9	540	500	560	505	---	540	580	480	540	460	460	480
10	540	500	550	565	620	540	590	---	560	480	455	475
11	520	500	535	555	595	550	600	410	---	480	460	450
12	440	545	520	510	610	530	600	490	---	---	480	430
13	520	555	505	500	600	540	610	420	---	510	470	460
14	520	535	495	540	590	540	580	420	---	---	475	430
15	520	530	505	560	590	---	580	420	---	---	485	420
16	560	520	520	560	595	---	610	440	---	520	490	395
17	520	520	---	580	590	590	630	---	500	---	490	420
18	520	530	530	---	560	590	625	---	---	500	495	410
19	540	550	---	540	575	590	625	460	---	500	510	405
20	520	540	560	---	550	580	630	520	---	500	490	460
21	500	575	560	560	515	580	520	520	---	510	490	445
22	500	575	570	580	520	580	600	530	---	500	460	370
23	500	565	550	540	490	560	595	530	---	510	480	360
24	500	560	570	560	480	520	450	550	550	500	460	380
25	460	550	600	580	460	500	470	550	---	590	430	390
26	460	565	505	580	465	490	440	560	500	---	470	400
27	520	525	505	540	470	500	450	---	500	---	500	395
28	520	530	580	540	470	490	460	550	440	500	500	---
29	520	550	500	540	---	440	490	---	430	460	490	390
30	500	530	565	560	---	430	530	480	450	430	450	390
31	480	---	575	540	---	485	---	520	---	440	535	---
MONTH	505	537	551	555	549	529	546	499	---	488	476	440

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	17.0	7.0	3.5	4.5	4.5	8.0	18.0	22.5	29.0	29.5	26.5
2	17.0	17.0	6.5	4.0	4.0	---	6.5	17.5	22.0	28.5	28.5	27.0
3	16.5	18.0	6.0	4.0	4.5	5.0	5.0	17.5	22.0	29.0	28.5	27.5
4	16.0	17.5	6.0	---	4.5	5.0	6.0	17.0	22.5	30.0	29.0	28.0
5	16.0	14.0	5.5	---	5.0	5.0	6.0	18.0	25.0	30.0	28.5	27.5
6	16.0	14.0	5.0	4.0	5.0	5.5	6.5	19.5	23.5	29.0	29.0	26.5
7	15.5	13.0	4.5	2.5	3.5	6.0	7.5	19.0	---	28.5	28.0	---
8	15.0	12.5	4.5	4.0	---	---	8.0	17.5	24.0	28.5	27.5	26.0
9	15.0	12.0	4.0	5.0	---	5.0	9.0	18.5	23.5	29.0	29.0	25.0
10	15.5	12.0	4.0	4.0	2.0	5.0	9.5	---	23.0	28.5	28.5	25.5
11	15.0	14.0	3.0	4.0	3.5	4.5	9.5	19.0	---	29.0	29.0	25.5
12	16.0	12.5	3.0	2.5	3.0	4.0	10.5	18.0	---	---	29.5	24.5
13	16.0	10.0	4.0	2.0	2.0	3.5	10.5	18.0	---	26.5	29.5	23.5
14	16.0	10.0	4.5	4.0	2.0	3.5	10.0	18.0	---	---	28.5	22.5
15	15.5	8.0	4.5	4.0	2.0	---	10.0	18.5	---	---	28.5	23.0
16	15.5	7.5	6.0	4.5	1.0	---	10.5	19.0	---	25.5	29.0	22.0
17	15.0	8.0	---	4.0	2.5	6.0	11.0	---	24.0	---	28.0	21.5
18	14.5	8.0	4.5	---	3.5	7.0	12.5	---	---	26.5	28.0	21.5
19	14.5	8.0	---	4.5	3.5	7.5	13.0	22.0	---	26.5	28.0	21.5
20	14.0	8.0	4.5	---	3.5	8.0	14.0	22.0	---	27.0	28.5	21.0
21	13.5	7.5	4.0	4.5	4.0	9.0	15.0	22.0	---	28.0	29.0	20.0
22	13.5	7.0	4.5	3.0	3.5	11.0	15.0	22.5	---	28.5	29.0	19.0
23	13.5	9.0	5.0	2.5	3.0	11.0	14.5	23.5	---	28.5	29.5	19.0
24	13.5	8.0	4.5	2.5	4.0	12.0	14.5	24.0	27.0	28.0	30.0	18.5
25	14.0	9.0	4.0	2.5	4.0	10.5	16.0	24.0	---	28.0	29.5	18.0
26	14.0	8.0	4.5	2.5	4.5	9.5	16.0	24.5	27.5	---	28.5	17.5
27	14.5	8.0	4.0	3.0	4.5	10.0	16.5	---	28.0	---	28.0	17.5
28	15.0	7.5	4.0	3.0	5.0	10.0	18.0	24.0	27.5	29.0	28.0	---
29	15.0	8.0	3.0	4.0	---	9.0	19.0	---	28.0	29.0	27.5	18.0
30	15.0	7.5	3.5	4.0	---	8.0	18.0	23.0	28.0	29.0	27.0	18.5
31	16.0	---	4.0	---	---	7.0	---	22.5	---	29.0	27.0	---
MONTH	15.0	11.0	4.5	3.5	3.5	7.0	11.5	20.5	---	28.0	28.5	22.5

PHYTOPLANKTON, CODOMINANT GENERA, JANUARY 1975 TO SEPTEMBER 1975

Date	Total Cells	Organism	Percent	Organism	Percent	Organism	Percent
Jan. 27, 1975	27,000	Cyclotella	91				
Feb. 26	9,100	Cyclotella	78				
Mar. 26	9,500	Cyclotella	62	Melosira	15		
Apr. 22	7,500	Cyclotella	65				
May 20	16,000	Anacystis Incerta	48	Melosira	21	Cyclotella	18
June 17	8,500	Melosira	28	Cyclotella	25	Oscillatoria	19
July 8	5,200	Oscillatoria	49	Melosira	26		
Aug. 12	57,000	Agmenellum	41	Anacystis	24	Melosira	19
Sept. 8	36,000	Coelastrum	45				

PERIPHYTON, JULY 1975 TO SEPTEMBER 1975

Date	Length of exposure (days)	Biomass (g/m^2)		Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
July 8, 1975	21	20	19	0.5	0.1	3,000	Polyethylene strip
Sept. 8	27	52	39	43	12	200	Polyethylene strip

06817000 NODAWAY RIVER NEAR OREGON, MO.

LOCATION.--Lat 39°58'19", long 94°59'46", Holt County, at bridge on U.S. Highway 59, 7 mi (11.3 km) east of Oregon.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
16...	0930	130	7.6	40	470	58	16	14	3.0	240	0	41
NOV.												
19...	0945	100	15	20	310	60	16	13	4.4	206	0	43
DEC.												
17...	0845	110	12	10	370	61	15	13	2.9	228	0	45
JAN.												
16...	0959	190	13	20	210	64	15	14	5.1	220	0	46
FEB.												
20...	0940	400	8.9	60	400	30	9.8	6.8	5.9	140	0	29
MAR.												
26...	0830	1100	10	60	20	36	9.8	7.0	4.3	120	0	33
APR.												
23...	0850	710	9.8	40	150	52	13	10	3.1	186	0	39
MAY												
29...	0830	900	4.8	40	10	38	11	9.3	4.2	152	0	29
JUNE												
26...	1045	6000	9.3	490	30	23	4.7	3.1	3.9	92	0	11
JULY												
30...	1050	30	9.6	50	60	60	19	13	3.4	240	6	33

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
16...	210	14	197	455	8.0	5	10.0	13	9.3	82	130	210
NOV.												
19...	240	67	169	505	7.9	3	8.0	11	9.5	80	1700	1800
DEC.												
17...	210	27	187	510	7.9	5	.0	9	11.5	79	200	290
JAN.												
16...	220	41	180	515	7.5	30	.0	15	11.7	80	1200	240
FEB.												
20...	140	20	115	324	7.7	200	1.0	49	10.6	75	2100	10600
MAR.												
26...	130	32	98	305	8.0	50	.5	44	12.4	86	1800	2200
APR.												
23...	180	32	151	410	7.8	25	16.0	36	8.6	87	2400	1600
MAY												
29...	140	16	125	318	7.7	35	19.5	190	6.4	69	28000	99000
JUNE												
26...	77	1	75	175	7.2	100	22.0	300	4.2	48	110000	140000
JULY												
30...	230	23	207	470	8.5	8	31.0	29	10.2	136	70	100

06817000 NODAWAY RIVER NEAR OREGON, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: November 1968 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.												
16...	10	.3	.19	.15	.95	.03	.10	268	.36	93.1	.4	12
NOV.												
19...	9.9	.2	.40	.11	.32	.10	.16	302	.41	81.6	.4	11
DEC.												
17...	11	.2	1.3	.13	.39	.05	.09	294	.40	87.4	.4	12
JAN.												
16...	13	.2	.00	.40	1.0	.15	.25	309	.42	150	.4	12
FEB.												
20...	7.4	.2	1.8	1.2	1.3	.15	.42	191	.26	206	.3	9
MAR.												
26...	6.7	.6	3.3	.25	1.7	.07	.59	190	.26	964	.3	10
APR.												
23...	8.8	.3	1.9	.02	2.1	.11	.68	239	.33	450	.3	10
MAY												
29...	7.6	.3	1.1	.22	1.6	.05	.75	192	.26	301	.3	12
JUNE												
26...	3.5	.3	2.5	.02	11	.06	.05	119	.16	1930	.2	8
JULY												
30...	10	.4	.00	.00	.91	.00	.34	275	.37	72.3	.4	11

06818000 MISSOURI RIVER AT ST. JOSEPH, MO.
(National Stream Quality Accounting Network Station)

LOCATION.--Lat 39°45'12", long 94°51'28", Buchanan County, at gaging station on left bank at left abutment of St. Joseph and Grand Island Railroad bridge in St. Joseph. River mile, 448.2 (721.2 km).

DRAINAGE AREA.--424,300 mi² (1,099,000 km²), approximately.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
16...	1130	44400	10	580	0	60	20	68	5.5	212	0	190
NOV.												
19...	1100	38500	11	10	130	61	21	45	5.6	212	4	170
DEC.												
17...	1030	26000	14	10	30	64	21	61	5.1	230	0	140
JAN.												
16...	1000	15900	11	990	80	77	26	48	6.2	248	0	190
FEB.												
28...	0950	27600	11	30	30	63	22	59	5.8	220	0	140
MAR.												
26...	0945	48500	13	90	10	55	18	39	4.0	192	0	110
APR.												
23...	1030	49000	13	20	20	45	21	49	5.3	220	0	140
MAY												
29...	0940	50600	4.7	30	10	62	21	58	5.5	212	0	170
JUNE												
26...	1315	90500	11	360	20	49	12	35	6.2	172	0	99
JULY												
31...	0810	65800	7.8	0	0	61	24	47	5.8	196	0	200
AUG.												
27...	1330	70800	7.4	30	10	50	23	67	7.8	212	0	200
SEP.												
16...	1545	60700	7.5	--	--	59	22	69	5.4	212	0	200

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	SUS-PENDED SEDI-MENT (MG/L)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.											
16...	750	8.3	5	158	12.5	11	--	8.6	80	4400	250
NOV.											
19...	750	8.4	--	1390	6.0	--	4.4	10.6	85	8000	820
DEC.											
17...	800	8.1	5	1930	.0	11	--	11.6	79	13200	2400
JAN.											
16...	875	7.9	--	73	.0	--	5.4	12.2	84	3600	35000
FEB.											
28...	730	7.9	80	666	1.0	25	--	10.6	75	6000	6400
MAR.											
26...	620	8.0	30	1380	2.0	54	--	11.0	80	7400	6000
APR.											
23...	700	8.2	15	1190	10.5	31	--	9.9	88	5200	2400
MAY											
29...	720	8.1	--	598	20.0	--	12	7.0	74	9500	31900
JUNE											
26...	525	7.5	35	4060	24.0	170	--	4.9	59	36000	38000
JULY											
31...	765	8.1	15	616	27.0	15	--	5.4	68	1200	250
AUG.											
27...	680	8.0	--	1090	27.0	--	8.3	5.5	69	5200	950
SEP.											
16...	760	7.9	--	431	19.5	--	--	7.6	82	3600	530

06818000 MISSOURI RIVER AT ST. JOSEPH, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1975.
Water temperatures: October 1974 to September 1975.

EXTREMES, 1974-75.--Specific conductance: Maximum 898 micromhos Jan. 18; minimum, 520 micromhos June 19.
Water temperature: Maximum 29.0°C July 9; minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 16...	16	.5	.19	.11	.54	.06	.14	481	230	58	174
NOV. 19...	16	.4	--	--	--	--	.14	477	240	58	181
DEC. 17...	21	.4	.56	.20	.58	.10	.18	494	250	58	189
JAN. 16...	18	.9	--	--	--	--	.16	532	300	80	220
FEB. 20...	21	.4	.00	.14	.70	.12	.30	464	250	47	180
MAR. 26...	15	.4	2.0	.20	1.9	.09	.27	362	210	56	157
APR. 23...	18	.4	2.1	.00	1.1	.11	.39	429	250	68	180
MAY 29...	16	.4	--	--	--	--	.20	460	240	67	174
JUNE 20...	12	.4	2.4	.02	10	.10	.91	330	170	31	141
JULY 31...	14	.6	.15	.03	.44	.05	.20	444	250	49	181
AUG. 27...	15	.5	--	--	--	--	.18	403	240	66	174
SEP. 16...	13	.5	--	--	--	--	.40	477	240	66	174

DATE	TIME	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
NOV. 19...	1100	0	0	0	1	3	.0	1	0	4	<10
JAN. 16...	1000	2	0	1	5	7	.1	2	30	4	10
MAY 29...	0940	0	0	0	1	2	.0	2	0	2	10
AUG. 27...	1330	4	0	0	0	10	.9	2	70	2	<10

DATE	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)
NOV. 19...	0	<50	<10	1300	<100	150	.0	0	30	5
JAN. 16...	0	50	60	1500	100	130	--	1	60	5
MAY 29...	20	<50	20	11000	<100	190	.0	2	320	11
AUG. 27...	30	<50	30	3600	<100	210	.3	--	50	6

06818000 MISSOURI RIVER AT ST. JOSEPH, MO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	760	760	750	725	750	860	725	530	650	640	725	680
2	760	711	750	725	750	---	755	530	700	675	720	690
3	755	710	750	735	750	850	775	638	710	700	725	700
4	760	720	780	730	745	875	800	640	710	710	725	695
5	755	715	790	730	735	875	805	640	725	725	725	630
6	760	730	780	740	750	860	850	645	725	730	725	680
7	760	730	780	725	750	840	850	647	740	740	725	695
8	745	730	770	725	750	840	850	800	730	740	720	700
9	750	740	770	740	---	850	855	632	700	750	725	700
10	755	740	770	705	775	850	855	690	690	745	725	700
11	755	740	750	740	790	825	850	690	580	745	730	695
12	755	740	770	730	780	855	805	692	645	790	725	695
13	755	745	770	755	780	850	810	695	655	745	725	700
14	750	745	800	770	785	850	800	700	660	750	725	700
15	750	750	780	770	765	865	800	---	680	755	725	705
16	755	750	770	795	765	860	795	700	700	750	725	705
17	750	750	800	845	760	850	805	720	700	795	730	710
18	755	745	750	898	745	810	800	705	655	795	730	700
19	755	750	760	845	750	690	800	710	520	798	730	700
20	750	740	760	795	755	690	825	715	590	753	715	695
21	750	740	725	770	755	625	825	---	625	710	695	690
22	755	740	745	760	725	630	865	715	590	790	720	680
23	750	745	740	775	730	650	840	708	575	745	725	700
24	755	740	720	750	750	675	650	712	560	745	720	690
25	750	740	715	750	755	710	650	710	540	745	720	690
26	755	740	710	750	765	720	658	690	520	743	705	690
27	755	735	715	750	645	705	660	705	540	745	700	700
28	750	735	705	745	730	745	670	710	590	740	720	685
29	750	735	720	750	---	680	670	700	635	737	700	680
30	755	745	740	750	---	710	530	640	650	750	700	680
31	700	---	725	750	---	700	---	650	---	725	655	---
MONTH	752	735	756	759	750	788	774	678	643	736	718	692

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	15.0	3.0	1.0	0.5	3.0	3.0	14.5	18.0	27.0	28.0	25.0
2	15.0	14.0	2.5	1.0	0.0	---	4.5	14.0	18.0	27.5	25.0	25.0
3	14.0	14.0	2.0	0.5	1.0	1.0	2.0	14.0	19.0	27.5	25.0	25.0
4	14.0	13.0	3.5	0.0	1.5	2.0	1.5	14.5	20.0	28.0	26.0	25.0
5	14.0	12.0	2.5	0.5	0.0	2.5	2.5	15.0	21.0	28.0	27.0	23.5
6	14.0	12.0	3.0	0.0	0.0	2.5	4.0	16.0	21.5	28.5	26.0	23.5
7	14.0	11.0	3.0	0.5	0.0	2.0	5.0	18.0	21.5	28.5	26.0	23.0
8	14.0	10.0	2.0	0.5	0.0	2.0	6.5	18.0	21.5	29.5	25.0	23.0
9	14.0	10.0	1.5	1.0	---	2.0	7.5	18.5	21.5	29.0	25.0	22.5
10	14.0	10.0	1.5	2.0	0.0	1.5	6.5	19.0	21.5	28.0	28.0	23.0
11	14.0	10.0	1.5	0.0	0.0	2.0	6.5	18.5	19.5	27.0	25.0	23.0
12	14.0	10.0	1.0	0.0	0.0	2.0	6.5	18.5	20.0	26.5	26.0	21.0
13	15.0	10.0	0.5	0.0	0.0	2.0	6.5	18.5	21.0	25.5	26.0	20.5
14	15.0	9.0	1.0	0.0	0.0	2.0	7.0	18.5	21.5	25.0	26.0	20.0
15	14.0	8.0	1.5	0.0	0.0	2.5	7.0	18.0	20.5	25.0	26.0	19.5
16	14.0	7.0	1.0	0.0	0.0	3.0	8.5	18.0	20.5	25.0	25.0	19.0
17	14.0	7.0	---	0.0	0.0	3.0	9.5	18.0	21.0	25.0	26.0	19.5
18	13.0	7.0	0.0	0.0	0.5	4.0	11.5	18.5	22.5	25.0	25.0	19.0
19	13.0	7.5	0.0	0.0	0.0	4.5	11.0	19.0	22.0	25.5	26.0	18.5
20	13.0	7.5	0.0	0.0	1.0	6.0	10.5	20.0	23.0	25.5	26.5	18.5
21	13.0	7.5	0.0	0.0	2.0	6.0	10.0	---	23.5	26.0	26.0	18.0
22	14.0	7.5	1.0	0.0	2.0	5.5	10.5	21.0	23.5	26.0	26.0	17.0
23	14.0	8.0	0.0	0.0	0.0	6.0	10.0	22.0	23.5	25.5	26.0	16.5
24	14.0	7.0	0.0	0.5	0.5	5.5	13.0	22.0	24.0	26.0	26.5	17.0
25	14.0	6.0	1.0	0.5	1.0	4.5	14.0	22.0	25.0	26.0	26.5	16.5
26	14.0	6.0	0.0	1.0	2.0	2.0	14.5	21.0	24.5	26.5	25.5	16.0
27	15.0	5.5	0.0	1.0	2.0	2.5	14.5	21.0	25.0	27.0	25.5	16.0
28	15.0	5.0	0.0	1.0	1.0	2.5	14.5	21.0	25.5	27.0	26.0	16.0
29	15.0	4.5	0.0	0.5	---	1.5	14.5	20.0	26.0	27.0	25.0	16.0
30	15.0	3.5	0.0	0.5	---	2.0	15.0	20.0	27.0	26.5	25.0	16.0
31	15.0	---	1.0	0.5	---	2.5	---	18.0	---	28.0	24.0	---
MONTH	14.0	9.0	1.0	0.5	0.5	3.0	8.5	18.5	22.0	26.5	26.0	20.0

06818000 MISSOURI RIVER AT ST. JOSEPH, MO.--Continued

PHYTOPLANKTON, CODOMINANT GENERA, NOVEMBER 1974 TO SEPTEMBER 1975

Date	Total Cells	Organism	Percent	Organism	Percent	Organism	Percent	Organism	Percent
Nov. 19, 1974	7,100	Oscillatoria	34	Pediastrum	16	Cyclotella	15		
Dec. 17	6,400	Lyngbya	34						
Jan. 16, 1975	3,300	Asterionella	93						
Feb. 28	3,400	Asterionella	86						
Mar. 26	6,200	Nitzschia	26	Oscillatoria	21				
Apr. 23	2,800	Anabaena	19	Cyclotella	18				
May 29	6,400	Cyclotella	38	Scenedesmus	17				
June 26	1,300	Fragilaria	50						
July 31	3,000	Actinastrum	25	Cyclotella	16	Melosira	17	Gomphosphaeria	17
Aug. 27	7,600	Oscillatoria	33	Cyclotella	20	Scenedesmus	15		
Sept. 16	13,000	Cyclotella	24	Scenedesmus	21	Pediastrum	17		

PERIPHYTON, NOVEMBER 1974 TO SEPTEMBER 1975

Date	Length of exposure (days)	Biomass (g/m^2)		Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Nov. 19, 1974	34	18	16	1.6	1.3	1,400	Polyethylene strip
Mar. 26, 1975	26	5.9	4.6	0.0	0.0	0.0	Polyethylene strip
May 29	36	280	270	65	5.1	120	Polyethylene strip
Sept. 16	20	140	130	91	4.9	110	Polyethylene strip

06821200 PLATTE RIVER AT PLATTE CITY, MO.

LOCATION.--Lat 39°22'10", long 94°47'10", Platte County, at bridge on State Highway 92 in Platte City.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
15...	1530	240	7.7	40	80	37	6.0	10	6.0	138	0	24
NOV.												
18...	1530	90	14	40	600	70	11	14	4.5	248	0	43
DEC.												
16...	1600	200	9.4	40	470	73	13	19	3.8	256	0	46
JAN.												
16...	1110	800	9.4	10	250	60	12	17	4.6	204	0	45
FEB.												
28...	1100	900	8.5	80	170	45	9.2	9.5	5.4	156	0	37
MAR.												
26...	1100	800	9.3	80	70	41	9.0	10	4.8	124	0	38
APR.												
22...	1620	800	9.6	50	40	50	11	13	4.6	180	0	43
MAY												
29...	1100	2600	5.8	380	80	40	6.4	9.3	4.4	140	0	26
JUNE												
26...	1600	5500	9.3	440	30	20	4.4	5.0	3.5	96	0	12
JULY												
31...	0940	200	14	70	480	75	18	17	4.5	284	0	48

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
15...	120	4	113	278	7.6	20	13.0	55	7.6	73	24000	13000
NOV.												
18...	220	17	203	520	7.9	10	6.5	14	10.3	84	410	240
DEC.												
16...	240	26	210	540	8.1	10	1.0	16	11.3	80	440	860
JAN.												
16...	200	32	167	500	7.7	60	.0	19	12.2	84	1400	10000
FEB.												
28...	150	22	128	366	7.8	100	.5	48	11.2	78	900	6000
MAR.												
26...	140	38	102	355	7.6	60	4.5	54	11.3	87	250	400
APR.												
22...	170	23	148	418	7.8	25	15.0	52	9.7	98	1450	1500
MAY												
29...	130	11	115	275	7.4	60	19.5	250	4.5	49	84000	360000
JUNE												
26...	68	0	79	155	7.9	200	24.0	260	4.6	54	16000	20000
JULY												
31...	260	28	233	545	7.8	10	28.0	17	6.4	81	2900	390

06821200 PLATTE RIVER AT PLATTE CITY, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: August 1967 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.												
15...	8.2	.2	.00	.32	1.7	.22	.56	180	.24	117	.4	15
NOV.												
18...	12	.2	1.3	.16	.47	.05	.72	306	.42	74.6	.4	12
DEC.												
16...	17	.2	.54	.09	.45	.05	.19	314	.43	170	.5	15
JAN.												
16...	15	.2	.00	.31	1.1	.07	.20	284	.39	614	.5	15
FEB.												
28...	11	.2	1.5	.78	2.0	.12	.26	216	.29	525	.3	12
MAR.												
26...	10	.7	2.4	.28	1.8	.07	.57	209	.28	451	.4	13
APR.												
22...	12	.3	1.9	.06	2.4	.07	.55	245	.33	529	.4	14
MAY												
29...	6.8	.3	1.8	.73	11	.03	.80	175	.24	1230	.4	13
JUNE												
26...	3.5	.3	2.0	.04	2.8	.06	.73	117	.16	1740	.3	13
JULY												
31...	11	.4	.00	.08	1.8	.06	.26	321	.44	173	.5	12

06894100 MISSOURI RIVER AT SIBLEY, MO.

LOCATION.--Lat 39°10'46", long 94°11'03", in NE¼NW¼ sec.2, T.50 N., R.30 W., Jackson County, at Missouri Public Service Company steam generating plant at Sibley.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT. 15...	1350	45600	4.6	90	0	60	20	73	5.6	210	0	180
NOV. 18...	1345	43800	11	60	20	64	21	66	5.5	204	0	170
DEC. 16...	1440	28100	14	20	40	69	23	65	5.1	244	0	160
JAN. 16...	1250	18700	11	20	60	73	20	59	5.6	256	0	150
FEB. 28...	1240	34600	13	50	60	67	20	58	5.7	236	0	130
MAR. 26...	1300	51200	13	80	0	55	18	40	6.0	180	0	120
APR. 22...	1450	59700	11	40	90	65	20	47	5.3	210	0	120
MAY 29...	1215	58600	7.6	100	10	59	20	54	5.5	198	0	150
JUNE 27...	0910	108000	10	110	0	51	12	35	6.0	168	0	94
JULY 31...	1120	66500	8.6	30	20	62	23	47	6.2	204	0	190

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT. 15...	230	60	172	770	8.0	5	13.5	21	8.0	76	40000	19600
NOV. 18...	250	79	167	760	8.1	5	6.5	12	10.4	85	21000	2300
DEC. 16...	270	67	200	850	8.2	5	1.5	9	10.6	76	19800	3600
JAN. 16...	260	55	210	850	8.0	5	.0	18	12.8	88	24000	70000
FEB. 28...	250	56	194	800	8.1	5	2.5	15	10.6	78	12500	5000
MAR. 26...	210	64	148	625	7.9	20	4.0	51	11.4	87	16000	4600
APR. 22...	240	72	172	710	8.1	15	12.5	30	9.6	90	15000	32000
MAY 29...	230	67	162	675	7.9	20	22.0	40	6.6	75	31000	28500
JUNE 27...	180	39	138	540	7.6	40	25.0	160	4.3	52	39000	54000
JULY 31...	250	82	167	760	8.0	9	27.5	18	5.4	68	12400	24000

06894100 MISSOURI RIVER AT SIBLEY, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: June 1972 to July 1975 (discontinued).

REMARKS.--Records of discharge are given for gaging station at Kansas City, Mo.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.												
15...	33	.4	.26	.34	.94	.19	.26	499	.68	61400	2.1	40
NOV.												
18...	26	.4	.94	.16	.52	.18	.26	489	.67	57800	1.8	36
DEC.												
16...	32	.4	.65	.37	.57	.17	.29	524	.71	39800	1.7	34
JAN.												
16...	28	.4	.51	.75	.55	.18	.36	491	.67	24800	1.6	32
FEB.												
24...	33	.4	.83	.51	.69	.19	.39	475	.65	44400	1.6	33
MAR.												
26...	23	.5	1.8	.22	1.9	.57	.72	379	.52	52400	1.2	28
APR.												
22...	21	.4	2.0	.05	1.5	.12	.51	414	.56	66700	1.3	29
MAY												
24...	23	.5	.85	.14	3.9	.12	.50	433	.59	68500	1.6	33
JUNE												
27...	17	.4	2.2	.01	7.2	.10	.03	319	.43	93000	1.1	29
JULY												
31...	21	.5	.35	.04	.87	.09	.53	482	.66	86500	1.8	36

06899620 THOMPSON RIVER NEAR CHILLICOTHE, MO.

LOCATION.--Lat 39°49'50", long 93°36'25", Livingston County, at bridge on State Highway 170, 4 mi (6.4 km) northwest of Chillicothe.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
16...	1500	120	4.8	50	160	60	11	17	3.7	218	0	40
NOV.												
19...	1330	170	12	30	220	69	13	15	5.3	220	0	52
DEC.												
17...	1230	1400	8.4	110	30	45	9.4	10	3.6	136	0	44
JAN.												
15...	1545	575	9.9	60	0	46	8.7	11	3.7	142	0	41
FEB.												
27...	1515	1000	7.4	60	60	44	9.3	9.6	5.9	98	0	45
MAR.												
25...	1400	2220	9.0	100	10	41	8.7	7.3	4.3	132	0	39
APR.												
23...	1400	1340	9.4	70	60	52	11	12	3.8	188	0	49
MAY												
28...	1445	900	7.8	100	30	59	12	12	4.4	218	0	40
JUNE												
26...	0815	4500	6.8	410	20	22	4.2	3.5	3.5	76	0	13
JULY												
30...	1420	10	13	10	40	67	16	14	4.1	264	0	37

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
16...	200	16	179	455	8.1	5	14.0	15	10.0	96	110	90
NOV.												
19...	230	45	180	495	8.3	10	9.5	20	10.2	89	230	280
DEC.												
17...	150	35	112	353	8.2	80	.0	41	11.7	80	12000	29000
JAN.												
15...	150	34	116	320	7.6	200	.0	17	15.4	105	1300	10000
FEB.												
27...	150	40	80	344	7.8	60	1.0	31	11.4	80	800	2400
MAR.												
25...	140	30	108	328	7.8	40	2.5	76	11.9	88	1000	9300
APR.												
23...	180	21	154	430	8.2	25	17.0	35	9.2	95	2400	1900
MAY												
28...	200	18	179	420	8.1	20	21.5	40	7.7	87	6800	3200
JUNE												
26...	72	10	62	167	7.6	200	22.5	220	5.4	61	30000	94000
JULY												
30...	230	17	217	510	8.3	10	30.5	21	7.0	92	60	120

06899620 THOMPSON RIVER NEAR CHILLICOTHE, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: November 1968 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.												
16...	8.8	.1	.01	.07	.75	.06	.42	272	.37	88.2	.5	16
NOV.												
19...	9.8	.2	.90	.08	.82	.11	.18	302	.41	139	.4	12
DEC.												
17...	9.1	.2	1.3	.16	1.0	.06	.60	223	.30	844	.4	13
JAN.												
15...	9.1	.1	1.4	.25	1.3	.07	.17	223	.30	346	.4	13
FEB.												
27...	9.5	.2	1.2	.72	1.2	.09	.41	213	.29	575	.3	12
MAR.												
25...	6.9	.5	1.9	.18	.72	.04	.73	193	.26	1180	.3	10
APR.												
23...	8.6	.2	.62	.03	1.3	.06	.40	250	.34	985	.4	13
MAY												
28...	7.8	.3	.83	.17	1.2	.07	.27	265	.36	358	.4	11
JUNE												
26...	3.5	.3	1.8	.11	4.1	.06	.48	124	.17	1510	.2	9
JULY												
30...	7.9	.3	.00	.00	.89	.07	.25	295	.40	7.97	.4	11

06902000 GRAND RIVER NEAR SUMNER, MO.
(National Stream Quality Accounting Network Station)

LOCATION.--Lat 39°38'25", long 93°16'25", NE¼ sec.29, T.56 N., R.21 W., Chariton County, at gaging station near right bank on downstream side of pier on State Highway 139, 240 ft (73.2 m) downstream from Chicago Burlington and Quincy Railroad bridge, 2 mi (3.2 km) southwest of Sumner, 2.5 mi (4.0 km) downstream from Locust Creek and at mile 41.0 (66.0 km).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 16...	1620	515	10	40	80	48	7.5	11	4.1	178	0	33
NOV. 19...	1500	740	13	10	170	66	11	13	5.1	216	0	46
DEC. 17...	1430	2500	8.2	50	60	50	9.0	10	3.5	166	0	47
JAN. 15...	1320	1950	9.0	50	60	50	9.7	11	3.9	168	0	47
FEB. 27...	1330	3700	7.1	90	70	40	8.6	8.3	5.3	126	0	40
MAR. 25...	1240	3920	7.5	80	0	42	8.3	7.7	4.1	150	0	42
APR. 23...	1545	6000	6.7	100	70	39	6.7	7.3	3.8	132	0	32
MAY 28...	1310	2640	6.2	150	10	42	8.1	6.5	4.0	156	0	29
JUNE 25...	1500	4110	11	50	0	49	7.3	8.4	4.8	144	0	29
JULY 30...	1300	480	14	20	130	70	18	15	4.3	286	0	34
AUG. 28...	1045	240	6.7	110	240	35	6.9	10	4.1	136	0	24
SEP. 17...	1110	750	8.8	--	--	32	5.8	6.6	4.9	124	0	22

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	SUS-PENDED SEDI-MENT (MG/L)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT. 16...	363	8.0	20	412	13.5	30	--	8.2	78	1200	800
NOV. 19...	485	8.1	--	12	8.5	--	9.5	9.9	85	350	240
DEC. 17...	410	8.1	30	1120	.0	55	--	10.8	74	9800	22000
JAN. 15...	400	7.6	100	124	.0	19	--	11.3	77	2200	12000
FEB. 27...	320	7.6	--	1340	1.0	32	14	11.2	79	1200	1300
MAR. 25...	335	7.8	70	2960	4.0	75	--	10.5	80	1100	2400
APR. 23...	272	7.9	90	5130	16.0	180	--	8.7	88	18500	17500
MAY 28...	312	7.8	--	2180	21.0	--	44	6.5	72	14000	14500
JUNE 25...	362	7.9	45	1150	27.5	49	--	6.1	76	4600	4200
JULY 30...	550	8.3	15	531	29.0	28	--	7.4	96	120	140
AUG. 28...	280	7.6	--	396	25.0	--	15	5.2	63	2200	2100
SEP. 17...	243	7.7	--	438	18.5	--	--	7.8	82	6800	2900

06902000 GRAND RIVER NEAR SUMNER, MO.--Continued

DRAINAGE AREA.--6,880 mi² (17,819 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: August 1962 to June 1963; August 1967 to September 1975.

EXTREMES, 1974-75.--Specific Conductance: Maximum, 537 micromhos July 30; minimum, 94 micromhos June 26. Water temperature: Maximum 30.0°C July 6; minimum freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
14...	6.6	.2	.00	.17	.93	.11	.21	216	150	5	146
NOV.											
19...	8.8	.2	--	--	--	--	.17	282	210	33	177
DEC.											
17...	8.3	.2	.95	.27	2.0	.03	.70	243	160	27	135
JAN.											
15...	8.5	.2	.00	.19	.91	.06	.19	239	160	43	121
FEB.											
27...	6.8	.1	--	--	--	--	.36	198	130	33	102
MAR.											
25...	6.5	.4	1.6	.14	1.6	.04	.46	199	140	35	123
APR.											
23...	4.6	.2	1.3	.15	7.2	.05	1.3	163	130	17	108
MAY											
28...	5.8	.3	--	--	--	--	.61	198	140	10	128
JUNE											
25...	6.7	.3	2.5	.02	2.0	.09	.33	223	150	18	136
JULY											
30...	8.1	.3	.00	.00	.81	.06	.26	309	250	6	243
AUG.											
28...	6.1	.4	--	--	--	--	.45	166	120	4	112
SEP.											
17...	3.6	.2	--	--	--	--	.00	145	100	2	102

DATE	TIME	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
NOV.											
19...	1500	0	0	0	1	0	.0	0	10	2	<10
FEB.											
27...	1330	2	0	0	6	5	.4	1	20	0	10
MAY											
28...	1310	3	0	2	5	3	1.1	0	0	2	<10
AUG.											
28...	1045	1	0	0	20	5	1.4	0	40	0	<10

DATE	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)
NOV.										
19...	0	<50	<10	3000	<100	330	.0	0	40	4
FEB.										
27...	0	<50	20	7200	<100	290	.7	1	60	4
MAY										
28...	10	<50	40	22000	<100	530	.0	1	200	32
AUG.										
28...	53	<50	20	14000	<100	690	.0	--	160	16

06902000 GRAND RIVER NEAR SUMNER, MO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	440	179	---	---	300	346	282	350	---	150	330	315
2	443	192	---	425	---	---	310	335	285	152	295	360
3	452	236	---	---	420	320	325	---	290	150	---	375
4	460	239	---	---	473	---	360	385	287	153	320	380
5	450	250	---	---	420	324	352	390	295	145	330	390
6	---	293	---	480	410	350	---	435	280	230	305	253
7	450	327	---	490	450	330	385	450	330	255	320	199
8	452	329	---	475	470	315	380	280	320	275	260	212
9	455	350	---	460	---	340	392	240	330	300	320	227
10	463	---	463	475	490	272	395	279	340	350	---	228
11	460	400	455	475	485	317	370	---	395	293	348	---
12	455	382	425	350	497	335	350	288	270	230	385	175
13	---	393	460	350	500	367	---	320	289	293	348	185
14	340	405	465	365	519	400	370	365	276	267	350	---
15	365	422	455	368	---	404	397	---	---	242	435	---
16	350	419	421	360	---	390	416	430	300	279	400	202
17	389	---	380	360	465	427	400	---	310	294	---	234
18	400	461	375	375	280	392	392	465	---	317	415	260
19	425	445	410	---	307	278	278	490	---	322	---	165
20	440	472	430	---	358	255	270	440	280	360	422	---
21	460	480	461	415	325	---	304	482	270	420	438	267
22	---	480	470	---	236	293	345	500	---	430	440	282
23	---	490	470	---	215	---	302	505	275	425	440	283
24	470	---	470	450	---	---	250	---	---	465	444	272
25	470	495	477	450	280	364	230	515	350	510	---	275
26	465	495	505	---	---	320	---	490	94	525	419	286
27	---	---	500	448	326	332	250	360	96	520	275	375
28	465	---	500	422	312	330	290	340	136	530	262	370
29	462	---	---	400	---	263	---	300	122	530	263	395
30	462	---	---	390	---	257	---	200	135	537	308	400
31	455	---	---	385	---	270	---	---	---	410	320	---
MONTH	439	---	---	---	390	331	336	388	260	332	354	283

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.0	17.5	---	---	0.0	2.5	5.0	18.0	---	28.0	26.0	24.0
2	12.0	16.5	---	2.0	---	---	7.0	17.0	21.0	27.0	26.0	25.0
3	11.0	15.0	---	---	0.0	1.0	3.0	---	22.0	27.0	---	26.0
4	14.0	12.0	---	---	0.0	1.0	5.0	16.0	22.0	29.0	24.0	25.0
5	15.0	10.0	---	---	0.0	2.0	6.0	19.0	22.0	29.0	25.0	24.0
6	---	9.5	---	0.0	0.0	4.0	9.0	21.0	23.0	30.0	24.0	22.0
7	13.0	9.0	---	0.0	0.0	4.0	9.0	20.0	23.0	28.0	23.0	21.0
8	13.0	9.0	---	0.0	0.0	4.0	9.0	21.0	23.0	29.0	23.0	21.0
9	14.0	9.0	---	0.0	---	3.0	9.0	24.0	22.0	27.0	28.0	21.0
10	13.0	---	0.0	0.0	0.0	2.0	11.0	20.0	22.0	27.0	---	22.0
11	14.0	9.0	0.0	0.0	0.0	2.0	9.0	---	21.0	24.0	25.0	---
12	17.0	8.5	0.0	0.0	0.0	4.0	9.5	20.0	23.0	24.0	26.0	---
13	---	8.0	0.0	0.0	0.0	3.0	---	20.0	22.0	21.0	26.0	18.0
14	16.0	6.5	0.0	0.0	0.0	3.0	10.0	20.0	22.0	21.0	25.0	---
15	13.0	8.5	0.0	0.0	---	5.0	10.0	---	---	26.0	25.0	---
16	13.0	5.0	0.0	0.0	---	5.0	11.0	20.0	21.0	25.0	25.0	17.0
17	13.5	---	1.5	0.0	0.0	5.0	11.0	---	22.0	27.0	---	19.0
18	14.0	8.0	0.0	0.0	0.5	7.0	12.0	21.5	---	27.0	25.0	18.0
19	12.0	9.0	0.0	---	0.0	5.5	13.0	24.0	---	26.0	---	15.0
20	12.5	6.0	0.0	---	0.0	7.0	12.0	24.5	25.0	27.0	27.0	---
21	11.0	7.0	0.0	0.0	0.0	---	12.5	22.0	26.0	27.0	27.0	15.0
22	---	7.0	0.0	---	0.0	7.0	14.0	25.0	---	26.0	27.0	14.0
23	---	9.0	0.0	---	0.0	---	---	24.0	26.0	26.0	28.0	14.0
24	14.5	---	0.0	0.0	---	---	20.0	---	---	29.0	27.5	15.0
25	16.0	6.0	0.0	0.0	0.0	4.0	20.0	24.0	27.0	25.0	---	13.5
26	16.0	4.5	---	---	---	3.5	---	22.5	24.0	25.0	23.0	12.0
27	---	---	---	0.0	0.0	5.0	20.0	23.0	29.0	26.0	23.0	14.0
28	15.5	---	---	0.0	0.5	5.0	19.0	23.0	27.0	29.0	24.0	16.0
29	16.5	---	---	0.0	---	4.0	---	21.0	29.0	29.5	24.0	16.5
30	16.5	---	---	0.0	---	4.0	---	18.0	28.0	28.0	24.0	16.0
31	18.0	---	---	0.0	---	5.0	---	---	---	28.0	23.0	---
MONTH	14.0	---	---	---	0.0	4.0	11.0	21.0	24.0	26.5	25.0	18.5

06902000 GRAND RIVER NEAR SUMNER, MO.--Continued

PHYTOPLANKTON, CODOMINANT GENERA, OCTOBER 1974 TO SEPTEMBER1975

Date	Cells	Organism	Percent	Organism	Percent	Organism	Percent
Oct. 16, 1974	19,000	Oscillatoria	43	Cyclotella	16	.	
Nov. 19	6,200	Oscillatoria	34	Actinastrum	21		
Dec. 17	3,300	Nitzschia	26	Navicula	21	Cyclotella	21
Jan. 15, 1975	470	Anacystis	44	Nitzschia	17	Scenedesmus	17
Feb. 27	2,400	Oscillatoria	47	Micractinium	28		
Mar. 25	1,100	Oscillatoria	53	Nitzschia	32		
Apr. 23	8,700	Navicula	50	Scenedesmus	25	Nitzschia	19
May 28	3,300	Scenedesmus	56	Cyclotella	20		
June 25	1,500	Nitzschia	43	Scenedesmus	29	Navicula	21
July 30	66,000	Gomphosphaeria	39				
Aug. 28	11,000	Oscillatoria	68	Cyclotella	17		
Sept. 17	2,100	Oscillatoria	72				

PERIPHYTON, NOVEMBER 1974 TO SEPTEMBER 1975

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
Nov. 19, 1974	32	24	14	0.5	0.6	22,000	Polyethylene strip
Mar. 25, 1975	27	0.6	0.4	0.1	0.1	2,000	Polyethylene strip
July 30	35	71	58	2.3	0.4	5,600	Polyethylene strip
Sept. 17	20	19	17	0.5	0.1	4,300	Polyethylene strip

06905500 CHARITON RIVER NEAR PRAIRIE HILL, MO.

LOCATION.--Lat 39°32'25", long 92°47'23", NE¼SW¼ sec.26, T.55 N., R.17 W., Chariton County, at gaging station on right bank on downstream side of bridge on State Highway 129, 3.2 mi (5.1 km) northwest of Prairie Hill, 13.5 mi (21.7 km) upstream from Puzzle Creek, and at mile 19.6 (31.5 km).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
17...	0940	270	7.3	170	20	61	12	15	4.5	192	0	81
NOV.												
20...	0930	226	11	40	140	75	18	16	4.3	220	0	110
DEC.												
17...	1610	1410	4.4	50	0	47	10	9.3	4.1	140	0	57
JAN.												
15...	1120	360	9.4	30	170	76	18	14	3.6	212	0	110
FEB.												
27...	1130	1170	7.3	60	60	46	12	8.3	4.1	108	0	71
MAR.												
25...	1030	1330	5.7	40	20	55	13	11	3.7	152	0	80
APR.												
23...	1730	5970	5.8	170	30	34	7.0	9.0	3.3	98	0	45
MAY												
20...	1045	930	5.2	310	30	50	10	10	3.8	140	0	45
JUNE												
25...	1245	3210	5.3	180	30	39	7.3	6.2	3.4	112	0	48
JULY												
30...	1110	110	4.3	10	100	63	16	15	4.8	220	0	44

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
17...	200	44	157	475	8.1	20	11.5	26	8.9	82	1900	550
NOV.												
20...	260	81	180	575	8.2	10	6.5	10	11.2	91	160	140
DEC.												
17...	160	44	115	365	8.1	40	.5	30	11.4	79	450	2000
JAN.												
15...	260	90	174	490	7.7	20	.0	8	14.4	98	20	100
FEB.												
27...	160	76	89	385	7.6	200	1.0	34	11.5	81	350	1400
MAR.												
25...	190	66	125	440	7.8	30	3.0	26	11.6	86	200	200
APR.												
23...	110	33	80	252	7.7	40	15.0	170	8.6	85	37000	17500
MAY												
20...	170	51	115	340	7.7	--	20.0	110	7.2	78	44000	80000
JUNE												
25...	130	36	92	262	7.6	55	24.5	110	4.8	57	18000	40000
JULY												
30...	220	43	180	475	8.3	15	29.0	16	6.3	82	30	80

06905500 CHARITON RIVER NEAR PRAIRIE HILL, MO.--Continued

DRAINAGE AREA.--1,870 mi² (4,843 km²).

PERIOD OF RECORD.--Chemical analyses: August 1962 to June 1963; August 1967 to July 1975 (discontinued.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SODIUM ADSORPTION RATIO	PERCENT SODIUM
OCT.												
17...	7.7	.1	.00	.99	1.0	.07	.14	293	.40	220	.5	14
NOV.												
20...	6.7	.2	.52	.06	.52	.03	.08	373	.51	228	.4	12
DEC.												
17...	6.9	.2	.83	.06	.40	.03	.25	223	.30	849	.3	11
JAN.												
15...	7.2	.1	.47	.04	1.8	.06	.07	366	.50	336	.4	11
FEB.												
27...	5.1	.2	.00	.18	1.0	.03	.19	235	.32	742	.3	10
MAR.												
25...	6.1	.2	.71	.02	.63	.01	.36	270	.37	970	.3	11
APR.												
23...	5.3	.2	.06	.19	5.9	.03	.49	169	.23	2720	.4	14
MAY												
28...	4.2	.2	.60	.94	3.2	.04	.06	213	.29	540	.3	11
JUNE												
25...	3.6	.3	.00	.04	1.6	.03	.20	171	.23	1400	.2	9
JULY												
30...	7.7	.3	.00	.08	.67	.03	.19	290	.39	86.1	.4	12

06906300 EAST FORK CHARITON RIVER NEAR HUNTSVILLE, MO.

LOCATION.--39°27'19", long 92°34'09", NE¼NW¼NW¼ sec.26, T.54 N., R.15 W., Randolph County, at gaging station at bridge on County Highway C, 1 mi (1.6 km) downstream from Sugar Creek, and 1.5 mi (2.4 km) northwest of Huntsville.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 17...	1050	24	8.3	50	2100	110	40	24	5.7	90	0	440
NOV. 20...	0820	24	8.5	900	2300	120	52	24	4.9	100	0	450
DEC. 18...	0910	109	6.1	190	750	61	20	18	3.6	86	0	180
JAN. 15...	1040	45	9.7	490	1300	93	35	28	3.7	144	0	300
FEB. 27...	1050	330	6.8	300	1100	62	25	13	3.0	72	0	210
MAR. 25...	0930	159	6.6	100	1200	93	39	28	3.7	114	0	320
APR. 24...	0845	2300	4.5	100	360	33	9.3	7.0	3.7	43	0	94
MAY 28...	0945	250	7.2	40	820	140	67	50	4.5	148	0	560
JUNE 25...	1130	30	6.1	90	2000	160	72	65	5.5	186	0	710
JULY 30...	0945	2.8	.5	30	3700	180	85	93	7.4	152	0	800

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT. 17...	480	400	74	1050	7.0	10	11.0	17	8.0	73	950	680
NOV. 20...	510	430	82	1050	7.3	10	6.0	9	9.8	79	780	640
DEC. 18...	230	170	69	595	7.3	50	.5	35	11.0	76	2900	6600
JAN. 15...	380	260	118	865	7.3	20	.0	7	12.2	86	170	110
FEB. 27...	260	200	59	640	7.1	80	.5	20	10.8	75	200	240
MAR. 25...	390	300	94	850	7.4	15	5.0	17	10.1	79	90	80
APR. 24...	120	85	35	300	7.1	110	13.5	65	7.9	75	27500	18000
MAY 28...	630	500	121	1140	7.5	5	20.0	25	6.4	70	1300	5200
JUNE 25...	700	570	128	1550	7.7	20	26.5	25	7.3	90	290	310
JULY 30...	800	670	125	1775	7.4	9	27.5	35	6.9	86	2400	3800

06906300 EAST FORK CHARITON RIVER NEAR HUNTSVILLE, MO.--Continued

DRAINAGE AREA.--220 mi² (570 km²).

PERIOD OF RECORD.--Chemical analyses: September 1963 to September 1968, October 1973 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.												
17...	8.2	.3	.23	.16	.73	.01	.09	766	1.04	49.6	.5	10
NOV.												
20...	7.5	.3	.36	.16	.33	.02	.07	801	1.09	51.9	.5	9
DEC.												
10...	6.5	.2	1.1	.17	1.1	.01	.20	389	.53	167	.5	14
JAN.												
15...	9.1	.2	.55	.08	.62	.03	.06	589	.80	71.6	.6	14
FEB.												
27...	5.3	.2	.45	.13	.78	.01	.07	395	.54	352	.4	19
MAR.												
25...	7.2	.3	.83	.05	.35	.01	.04	613	.83	263	.6	13
APR.												
24...	4.4	.2	.42	.14	2.8	.05	.66	188	.26	1170	.3	11
MAY												
29...	4.5	.4	.27	.05	7.0	--	.07	--	1.23	612	.9	15
JUNE												
25...	8.8	.5	.03	.00	1.3	.01	.08	1220	1.66	98.8	1.1	17
JULY												
30...	20	.6	.01	.04	1.6	.03	.38	1580	2.15	11.9	1.4	20

CEDAR CREEK BASIN

06910410 CEDAR CREEK NEAR COLUMBIA, MO.

LOCATION.--Lat 38°54'40", long 92°09'30", Boone County, at left downstream side of bridge on County Highway WW, 3 mi (4.8 km) downstream from gaging station, and 9.3 mi (15 km) east of Columbia.

DRAINAGE AREA.--52.1 mi² (135 km²).

PERIOD OF RECORD.--Chemical analyses: July 1964 to September 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
17...	1330	.40	14	100	10000	160	63	16	7.1	4	0	670
NOV.												
20...	1330	.90	12	2400	5500	97	34	11	6.2	6	0	360
DEC.												
18...	1215	7.3	10	4400	4100	69	26	9.4	4.7	12	0	270
JAN.												
16...	1630	11	11	2800	3400	76	27	13	4.8	42	0	290
FEB.												
28...	1600	81	9.2	2600	2200	48	18	11	3.3	26	0	170
MAR.												
26...	1600	5.8	11	3900	5000	89	37	15	3.5	16	0	370
APR.												
22...	1110	4.2	11	490	4800	110	10	17	3.8	4	0	430
MAY												
29...	1550	.60	12	130	13000	150	80	16	6.2	0	0	890
JUNE												
27...	1300	1.6	8.0	40	3600	77	24	11	4.9	16	0	280
JULY												
31...	1500	.01	9.2	160	11000	190	63	15	6.7	4	0	730

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
17...	660	660	3	1140	4.8	2	11.0	7	6.1	55	34	8
NOV.												
20...	400	390	5	880	5.2	0	7.5	7	11.4	95	14	18
DEC.												
18...	280	270	10	710	6.4	0	.5	20	11.3	78	10	8
JAN.												
16...	300	270	34	578	6.9	40	1.0	18	12.4	87	64	510
FEB.												
28...	190	170	21	582	6.8	30	3.5	7	11.2	84	35	95
MAR.												
26...	370	360	13	865	6.5	3	5.0	11	11.4	89	<2	<2
APR.												
22...	320	310	3	960	6.2	3	15.5	5	8.8	88	1	2
MAY												
29...	700	700	0	1440	3.8	1	20.0	14	7.0	76	26	98
JUNE												
27...	290	280	13	650	6.5	15	24.0	13	5.9	69	730	1100
JULY												
31...	730	730	3	1370	4.7	4	25.0	3	5.7	69	2	80

06910410 CEDAR CREEK NEAR COLUMBIA, MO.--Continued

EXTREMES, 1974-75.--Specific conductance: Maximum, 1,780 micromhos Nov. 3; minimum, 130 micromhos Mar. 5-6.

EXTREMES, 1964-75.--Specific conductance: Maximum, 5,140 micromhos Nov. 12, 1964; minimum 60 micromhos Aug. 2, 1968.

REMARKS.--Conductance recorder inoperative Jan. 16-Feb. 28; Sept. 12-30, 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT. 17...	12	.6	.02	.10	.30	.05	.05	1060	1.44	1.16	.3	5
NOV. 20...	9.6	.4	1.4	.54	.22	.02	.01	624	.85	1.52	.2	6
DEC. 18...	10	.3	1.3	.30	.38	.00	.01	454	.62	8.95	.2	7
JAN. 16...	11	.2	.08	.23	.65	.02	.05	483	.66	14.3	.3	8
FEB. 24...	9.9	.2	1.6	.14	.33	.01	.05	290	.39	63.4	.3	11
MAR. 26...	9.0	.5	.98	.13	.18	.00	.01	606	.82	9.49	.3	8
APR. 22...	7.5	.3	.42	.10	.34	.00	.02	710	.97	8.85	.4	10
MAY 29...	7.4	1.1	.20	.75	.01	.02	.03	1340	1.82	2.17	.3	5
JUNE 27...	6.3	.3	1.3	.11	.80	.01	.10	456	.62	1.07	.3	7
JULY 31...	7.4	1.0	.10	.03	.27	.01	.02	1140	1.55	.31	.2	4

06910410 CEDAR CREEK NEAR COLUMBIA, MO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1000	980	1490	1460	1120	1110	920	920			470	430
2	1010	1000	1500	1490	1130	1120	920	920			440	410
3	1020	1000	1700	870	1180	1130	920	900			480	440
4	1000	990	870	380	1230	1180	900	900			500	480
5	1020	1000	420	390	1280	1230	900	890			530	130
6	1010	1000	430	390	1280	1270	890	880			240	130
7	1050	1010	480	430	1270	820	880	870			240	180
8	1080	1040	530	480	860	850	870	860			300	220
9	1080	1050	570	530	860	840	860	860			340	300
10	1090	1080	740	530	840	810	860	420			410	340
11	1100	1080	670	640	810	790	510	450			490	410
12	1100	1090	650	640	800	710	510	510			500	440
13	1110	1100	670	650	710	710	550	510			440	390
14	1100	1100	690	670	710	710	560	550			450	390
15	1110	1100	720	690	710	710	580	560			490	450
16	1120	1110	760	720	710	710	---	---			530	500
17	1140	1120	800	760	710	710	---	---			520	500
18	1190	1140	840	800	710	710	---	---			540	520
19	1230	1190	880	840	710	710	---	---			570	540
20	1250	1230	880	880	720	710	---	---			640	570
21	1260	1250	940	880	730	720	---	---			690	640
22	1300	1260	1000	940	750	730	---	---			740	690
23	1340	1300	1010	1000	760	750	---	---			780	760
24	1380	1340	1010	970	780	760	---	---			800	780
25	1400	1380	1000	970	820	780	---	---			830	800
26	1420	1390	1030	1000	850	820	---	---			870	270
27	1440	1420	1040	1030	870	850	---	---			500	175
28	1450	1440	1090	1040	910	870	---	---			270	190
29	1450	1430	1100	1090	920	910	---	---			310	210
30	1450	1450	1110	1100	920	920	---	---			390	310
31	1460	1450	---	---	920	920	---	---			470	390
MONTH	1460	980	1700	380	1280	710	---	---			870	130

06910410 CEDAR CREEK NEAR COLUMBIA, MO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	510	470	750	720	1600	1300	1300	1280	1370	1370	690	660
2	540	510	760	750	1420	1220	1320	1300	1370	1370	710	690
3	600	540	800	760	1220	1120	1400	1320	1370	1360	740	710
4	650	590	830	800	1150	1120	1430	1400	1360	1360	750	740
5	660	650	840	830	1200	1140	1470	1430	1360	1340	750	750
6	660	650	860	840	1220	1200	1470	1430	1370	1360	740	750
7	670	640	880	360	1220	1200	1460	1430	1370	1360	760	750
8	700	670	1030	400	1200	1190	1480	1460	1370	1370	770	760
9	750	700	930	860	1200	1160	1490	1480	1370	1370	770	770
10	780	750	930	820	1160	1140	1500	1490	1370	1370	770	770
11	780	780	900	830	1180	1140	1500	1490	1370	1370	890	770
12	790	780	910	900	1300	1180	1500	1500	1370	1370	890	820
13	800	790	970	910	1400	1300	1500	1490	1370	1370	---	---
14	800	800	970	960	1400	1390	1490	1480	1370	1270	---	---
15	810	800	960	960	1410	1390	1490	1480	1270	1270	---	---
16	850	810	970	960	1420	460	1490	1480	1270	1270	---	---
17	850	850	990	970	1100	135	1500	1490	1270	1250	---	---
18	850	850	990	990	380	330	1500	1490	1250	1250	---	---
19	930	850	990	990	440	380	1500	1500	1250	1250	---	---
20	940	930	990	990	490	440	1500	1430	1250	1250	---	---
21	950	940	1180	950	520	490	1430	1400	1250	1230	---	---
22	970	950	1300	1100	550	520	1420	1400	1230	1200	---	---
23	980	185	1500	1300	620	550	1420	1410	1200	1200	---	---
24	205	170	1500	1300	640	620	1430	1420	1200	1200	---	---
25	360	240	1300	1000	650	640	1430	1370	1680	410	---	---
26	460	360	1110	1100	650	640	1370	1330	475	340	---	---
27	550	460	1130	1110	710	620	1340	1330	480	435	---	---
28	590	550	1370	1130	890	710	1350	1340	530	480	---	---
29	650	590	1440	1370	1040	890	1360	1350	570	530	---	---
30	720	650	1440	1240	1280	1040	1370	1360	630	570	---	---
31	---	---	1310	1190	---	---	1370	---	660	630	---	---
MONTH	980	170	1500	360	1600	135	1500	1280	1680	340	---	---

06916650 MARAIS DES CYGNES RIVER NEAR WORLAND, MO.

LOCATION.--Lat 38°13'07", long 94°36'45", in NW¼ sec.6, T.39 N., R.33 W., Bates County, at county road bridge on Kansas-Missouri State line and 2.2 mi (3.6 km) northwest of Worland.

DRAINAGE AREA.--3,230 mi² (8,366 km²).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
07...	1345	107	5.4	90	0	76	10	13	3.0	252	0	37
DEC.												
10...	1015	954	7.8	30	90	78	10	26	2.6	270	0	44
FEB.												
04...	1100	5150	4.0	30	30	58	6.2	9.0	3.0	176	0	42
APR.												
02...	1100	2720	6.8	30	0	64	8.4	11	2.5	198	0	38
JUNE												
11...	1020	9010	6.3	40	10	34	4.2	6.5	2.9	102	0	19

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
07...	230	24	207	482	8.1	5	16.0	12	8.7	88	90	100
DEC.												
10...	240	14	221	550	8.2	5	1.5	11	11.0	79	580	320
FEB.												
04...	170	28	143	418	7.8	20	3.0	32	11.4	84	1400	3000
APR.												
02...	190	32	162	418	7.9	60	7.0	28	11.2	93	210	740
JUNE												
11...	100	19	84	243	7.6	65	20.0	86	5.1	55	11000	43000

06916650 MARAIS DES CYGNES RIVER NEAR WORLAND, MO.

PERIOD OF RECORD.--Chemical analyses: August 1962 to June 1963; October 1972 to July 1975 (discontinued).

REMARKS.--Records of discharge are given for gaging station near Kansas-Missouri State line, 6.8 mi (10.9 km) upstream.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.												
07...	10	.3	.18	.10	.67	.04	.09	278	.38	80.3	.4	11
DEC.												
10...	15	.2	.00	.06	.31	.09	.11	314	.43	809	.7	19
FEB.												
04...	7.4	.2	1.4	.08	1.0	.05	.24	241	.33	3350	.3	10
APR.												
02...	8.8	.3	.98	.04	.83	.04	.16	254	.35	1870	.3	11
JUNE												
11...	3.9	.2	1.5	.01	1.9	.07	.50	140	.19	3410	.3	12

06918440 SAC RIVER NEAR DADEVILLE, MO.

LOCATION.--Lat 37°26'35", long 93°41'05", in NE¼NE¼NW¼ sec.9, T.31 N., R.25 W., water temperature recorder at gaging station at bridge on State Highway 245, 2 mi (3.2 km) upstream from Cave Spring Branch and 2 mi (3.2 km) south of Dadeville.

DRAINAGE AREA.--257 mi² (666 km²).

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1					---	---	24.0	21.5	24.0	23.0	19.5	18.0
2					---	---	25.0	22.5	23.0	21.5	18.0	16.0
3					---	---	24.5	23.0	22.0	20.0	16.0	15.0
4					---	---	24.5	22.0	22.0	20.0	15.5	14.5
5					---	---	24.0	21.5	21.0	20.5	15.5	14.5
6					---	---	24.5	22.0	21.5	19.5	16.0	14.5
7					---	---	24.5	22.5	22.0	20.0	17.5	15.5
8					---	---	25.0	23.0	21.5	21.0	19.0	16.0
9					---	---	25.5	23.0	22.5	21.0	19.5	16.5
10					---	---	25.5	23.5	22.5	21.0	20.0	18.0
11					---	---	25.5	23.0	22.0	21.0	21.0	19.0
12					---	---	26.0	23.5	---	---	21.0	19.5
13					---	---	26.0	24.0	22.5	20.5	20.0	18.5
14					---	---	26.0	24.5	23.5	21.0	18.5	17.0
15					---	---	25.5	24.0	24.0	22.5	17.5	16.5
16					---	---	25.5	23.5	24.0	22.0	18.0	16.5
17					---	---	25.5	24.0	25.0	23.0	18.5	17.0
18					---	---	26.0	24.5	24.5	22.5	19.0	17.0
19					---	---	26.0	24.5	23.0	20.0	18.5	18.0
20					---	---	26.5	24.5	22.5	19.5	19.0	18.0
21					---	---	26.5	25.0	24.0	21.5	18.5	17.5
22					---	---	26.5	25.0	24.5	23.0	17.5	16.0
23					---	---	25.5	24.0	22.5	21.0	16.0	15.0
24					---	---	24.5	23.0	23.5	21.0	15.5	15.0
25					---	---	24.5	22.5	24.0	21.5	14.0	14.5
26					19.5	18.0	25.0	22.5	24.0	22.0	14.5	15.0
27					20.0	17.5	26.0	24.0	23.5	22.0	18.0	16.0
28					21.0	18.5	25.5	24.0	22.0	20.5	18.0	14.0
29					21.5	20.0	24.5	22.5	20.5	19.5	16.5	15.0
30					23.0	20.5	24.5	22.0	19.0	18.0	15.5	14.5
31					---	---	24.5	22.5	20.5	18.0	---	---
MONTH					---	---	26.5	21.5	25.0	18.0	21.0	14.5

06918440 SAC RIVER NEAR DADEVILLE, MO.--Continued

PERIOD OF RECORD.--June 1974 to September 1975.

EXTREMES, June 1974 to September 1975.--Maximum, 28.5°C Aug. 22, 23; minimum, 2.0°C Dec. 3.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	14.0	14.5	13.5	3.5	3.0	6.5	6.0	8.0	7.5		
2	15.0	13.5	13.5	12.5	4.0	3.0	6.0	5.5	8.0	8.0		
3	14.5	13.0	13.0	12.5	3.5	2.0	6.5	5.5	8.5	8.0		
4	15.5	13.5	13.0	11.0	4.0	3.0	6.0	5.5	8.5	7.5		
5	16.5	14.5	11.5	10.5	5.0	3.5	6.0	5.5	7.5	6.0		
6	16.0	15.5	12.0	11.5	6.5	5.0	6.5	5.5	6.0	5.0		
7	15.5	14.5	12.0	11.0	7.5	6.5	7.0	6.0	5.0	4.0		
8	15.0	13.5	12.5	11.5	6.5	4.5	7.5	7.0	5.0	4.0		
9	15.0	13.0	12.0	11.5	5.0	4.5	7.5	7.0	5.0	4.5		
10	15.0	13.0	12.5	12.0	6.0	4.5	7.5	6.5	6.0	4.5		
11	15.5	13.5	12.5	12.0	7.0	6.0	6.5	6.0	7.0	6.0		
12	16.0	15.5	12.0	10.5	7.5	7.0	6.0	4.5	7.5	7.0		
13	17.5	15.5	10.5	9.5	7.5	6.5	4.5	3.0	7.0	6.5		
14	17.5	15.5	9.5	8.5	7.5	6.5	4.0	3.0	8.0	6.5		
15	15.5	13.5	9.0	8.0	7.0	6.0	6.0	4.0	8.0	7.5		
16	14.0	12.5	9.5	9.0	6.0	5.0	6.0	5.0	7.5	6.5		
17	14.5	12.5	9.5	9.0	5.5	4.5	5.0	4.5	6.5	6.0		
18	15.5	13.0	10.0	9.5	5.5	5.0	5.5	5.0	6.0	6.0		
19	14.5	13.0	11.0	10.0	6.0	5.5	5.5	5.0	6.5	5.5		
20	14.0	12.5	11.0	9.5	6.0	6.0	5.0	4.5	7.0	5.5		
21	13.5	12.0	9.5	8.5	6.0	5.5	5.0	4.5	8.5	7.0		
22	13.0	11.5	9.5	8.5	6.0	5.0	5.5	4.5	9.0	6.0		
23	13.5	12.5	11.5	9.5	7.0	6.0	5.5	4.5	6.5	5.5		
24	14.5	13.0	11.0	8.5	6.5	5.0	6.0	5.0	8.0	6.0		
25	15.0	14.0	8.5	6.5	5.0	4.5	7.0	6.0	10.0	8.0		
26	15.5	14.5	6.5	6.0	4.5	4.5	7.0	6.0	10.5	9.5		
27	15.5	14.5	6.5	5.5	5.5	4.0	7.5	6.0	10.5	9.5		
28	15.0	14.0	6.0	5.0	5.5	5.0	8.0	7.5	---	---		
29	15.0	14.0	5.5	3.5	7.0	5.5	9.0	8.0	---	---		
30	15.5	14.0	3.5	3.5	7.0	6.5	8.0	7.0	---	---		
31	15.5	14.5	---	---	7.0	6.5	7.5	6.5	---	---		
MONTH	17.5	11.5	14.5	3.5	7.5	2.0	9.0	3.0	10.5	4.0		

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	---	17.5	16.0					---	---	26.0	23.5
2	12.0	8.5	16.5	15.0					---	---	27.0	24.5
3	11.0	8.5	17.0	14.5					---	---	27.5	25.5
4	13.0	10.5	18.0	15.5					---	---	27.5	26.0
5	14.0	12.0	19.0	17.0					---	---	27.0	25.5
6	14.5	12.5	21.0	18.0					---	---	26.0	23.5
7	14.5	12.5	21.5	19.5					---	---	25.0	22.0
8	13.0	11.5	22.0	20.0					---	---	24.5	22.0
9	15.0	12.5	21.5	20.0					---	---	24.5	22.0
10	14.5	---	21.0	19.5					---	---	24.0	22.5
11	14.0	12.5	21.0	18.5					---	---	23.0	22.0
12	14.0	12.0	20.0	18.0					---	---	22.0	19.0
13	13.5	12.0	19.5	17.0					---	---	19.0	18.0
14	12.5	12.0	19.5	17.0					---	---	18.0	17.5
15	14.5	11.5	20.0	17.0					---	---	17.5	17.0
16	17.5	14.0	19.5	16.5					---	---	17.5	17.0
17	18.5	17.0	20.0	16.5					---	---	19.0	17.5
18	19.5	17.5	21.0	17.0					26.5	26.0	20.5	18.5
19	17.5	16.0	21.0	19.0					27.0	25.5	20.5	18.5
20	17.0	14.5	21.5	20.5					27.5	25.0	18.5	17.0
21	18.0	15.5	22.5	20.0					28.0	26.0	17.0	16.0
22	18.5	16.0	24.0	20.5					28.5	26.5	16.5	15.5
23	20.5	17.5	23.5	21.5					28.5	26.5	16.5	15.5
24	20.5	19.5	---	---					28.0	26.5	16.5	15.5
25	20.5	18.5	---	---					27.5	26.0	16.0	15.0
26	21.0	19.0	---	---					26.5	25.5	16.0	14.5
27	22.0	20.5	---	---					26.0	25.0	16.5	14.0
28	21.5	19.5	---	---					25.5	24.5	15.5	15.0
29	19.5	17.5	---	---					25.5	24.5	17.0	15.0
30	17.5	17.0	---	---					24.5	21.0	18.0	17.0
31	---	---	---	---					25.0	22.5	---	---
MONTH	22.0	8.5	---	---					---	---	27.5	14.0

06918990 STOCKTON LAKE NEAR STOCKTON, MO.

LOCATION.--Lat 37°41'45", long 93°45'55", in SW¼SE¼SW¼ sec.10, T.34 N., R.26 W., Cedar County, temperature recorder on floating raft 150 ft upstream from intake tower at dam on Sac River, 2 mi (3.2 km) east of Stockton.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
SAMPLING DEPTH 2.00(FT.).

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	19.5	18.5	11.0	10.5	7.5	7.0	5.5	5.0		
2	---	---	18.5	18.5	10.5	10.0	7.0	7.0	5.5	5.0		
3	---	---	18.5	18.0	10.0	9.5	7.0	6.0	5.5	5.0		
4	---	---	18.0	18.0	10.0	10.0	7.5	6.5	5.5	5.5		
5	---	---	18.0	17.5	10.0	9.5	6.5	6.5	5.5	5.0		
6	---	---	18.0	17.5	10.0	10.0	7.0	6.0	5.0	4.5		
7	---	---	17.5	17.0	10.0	9.5	7.0	6.0	5.0	4.0		
8	---	---	17.5	17.0	10.0	9.0	6.5	6.5	5.0	4.5		
9	---	---	17.0	16.5	10.0	8.5	7.0	6.5	4.5	4.0		
10	---	---	16.5	16.5	9.5	8.5	7.0	6.5	4.5	4.0		
11	---	---	16.5	16.0	9.0	8.5	6.0	6.0	4.5	4.0		
12	---	---	16.0	15.5	9.0	8.5	6.0	5.5	4.5	4.0		
13	---	---	15.5	15.0	9.5	8.5	6.0	5.5	4.0	4.0		
14	---	---	15.0	15.0	9.0	8.5	6.0	5.5	---	---		
15	---	---	15.0	14.5	8.5	8.0	6.5	5.0	---	---		
16	---	---	15.0	14.5	8.0	7.5	5.5	5.5	---	---		
17	---	---	14.5	14.5	8.0	7.5	5.5	5.0	---	---		
18	---	---	14.5	14.5	8.0	7.5	5.5	5.0	---	---		
19	---	---	14.5	14.0	8.0	7.5	5.5	5.0	---	---		
20	---	---	14.0	14.0	8.0	7.5	5.5	4.5	---	---		
21	---	---	14.5	13.5	8.5	7.5	5.0	5.0	---	---		
22	---	---	14.5	14.0	8.0	7.5	5.0	4.5	---	---		
23	---	---	14.5	14.0	8.0	7.5	5.0	4.5	---	---		
24	20.0	18.0	14.0	13.5	7.5	7.5	5.0	5.0	---	---		
25	19.5	18.5	14.0	13.0	7.5	7.5	5.0	5.0	---	---		
26	20.0	18.5	13.0	13.0	7.5	7.5	5.5	5.0	---	---		
27	20.0	18.5	13.0	12.5	7.5	7.5	5.5	5.0	---	---		
28	19.0	18.5	13.5	12.0	7.5	7.5	5.5	5.0	---	---		
29	19.0	18.5	12.0	11.0	7.5	7.5	5.5	5.0	---	---		
30	19.5	18.5	11.5	10.5	7.5	7.5	5.5	5.0	---	---		
31	19.0	18.5	---	---	7.5	7.0	5.5	5.0	---	---		
MONTH	---	---	19.5	10.5	11.0	7.0	7.5	4.5	---	---		

06918990 STOCKTON LAKE NEAR STOCKTON, MO.--Continued

DRAINAGE AREA.--1,160 mi² (3004 km²).

PERIOD OF RECORD.--Water temperatures: October 1974 to September 1975.

REMARKS.--Recorder inoperative on many days during the year.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
SAMPLING DEPTH 2.00(FT.).

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	18.5	15.0					---	---	31.0	28.0
2	---	---	17.5	16.5					---	---	31.5	29.0
3	6.5	6.0	17.5	16.0					---	---	31.5	30.0
4	7.0	6.0	18.5	16.0					---	---	32.0	29.0
5	7.0	6.5	19.5	17.5					---	---	30.0	26.5
6	7.5	7.0	21.0	19.0					---	---	27.0	26.0
7	7.5	7.0	21.0	19.0					---	---	27.5	26.5
8	7.5	7.0	24.5	20.0					---	---	27.5	26.5
9	8.0	7.0	23.0	20.5					---	---	29.5	26.5
10	7.5	7.0	23.5	21.0					---	---	28.0	27.0
11	7.5	7.0	23.0	21.5					---	---	---	---
12	8.0	7.0	21.5	20.0					---	---	---	---
13	9.0	8.0	21.0	20.0					---	---	---	---
14	8.5	7.5	23.0	20.5					---	---	---	---
15	9.5	8.0	22.0	20.0					---	---	---	---
16	10.5	9.0	22.5	19.5					---	---	---	---
17	11.0	9.5	25.0	21.5					---	---	---	---
18	11.0	9.5	25.0	23.0					---	---	24.0	---
19	10.0	9.5	25.0	24.0					30.0	28.0	24.0	23.0
20	13.5	9.5	---	23.5					30.5	28.5	23.0	22.0
21	14.0	13.0	---	---					31.0	28.5	22.0	21.5
22	13.5	12.5	---	---					30.5	29.0	21.5	21.0
23	14.5	13.0	---	---					30.5	29.5	21.0	21.0
24	14.5	13.0	---	---					29.5	29.5	21.0	20.5
25	16.5	14.0	---	---					29.5	28.5	20.5	20.0
26	17.5	15.5	---	---					28.5	28.0	21.5	20.0
27	18.5	17.0	---	---					29.5	28.0	21.5	20.5
28	18.5	16.5	---	---					28.0	27.5	20.5	20.5
29	18.0	16.5	---	---					28.0	27.5	22.0	20.5
30	17.0	15.5	---	---					29.0	27.0	22.0	20.0
31	---	---	---	---					30.0	27.0	---	---
MONTH	18.5	6.0	---	---					---	---	---	---

06918990 STOCKTON LAKE NEAR STOCKTON, MO.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
SAMPLING DEPTH 20.00(FT.).

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	18.0	17.5	10.5	10.5	7.0	7.0	6.0	4.0		
2	---	---	17.5	17.5	10.5	10.5	7.0	7.0	6.0	6.0		
3	---	---	17.5	17.5	10.5	10.0	7.0	7.0	6.0	6.0		
4	---	---	17.5	17.0	10.0	9.5	7.0	7.0	6.0	6.0		
5	---	---	17.0	16.5	9.5	9.5	7.0	7.0	6.0	5.5		
6	---	---	16.5	16.5	9.5	9.5	7.0	7.0	5.5	5.5		
7	---	---	16.5	16.0	9.5	9.5	7.0	7.0	5.5	5.0		
8	---	---	16.0	16.0	9.5	9.0	7.0	7.0	5.5	5.0		
9	---	---	16.0	15.5	9.0	8.5	7.0	7.0	5.0	5.0		
10	---	---	15.5	15.5	9.0	8.5	7.0	7.0	5.0	4.0		
11	---	---	15.5	15.5	9.0	8.5	7.0	6.5	4.0	4.0		
12	---	---	15.5	15.0	8.5	8.5	6.5	6.5	4.5	4.0		
13	---	---	15.0	14.5	8.5	8.5	6.5	6.0	4.0	4.0		
14	---	---	14.5	14.0	8.5	8.5	6.5	6.0	---	---		
15	---	---	14.0	14.0	8.5	8.5	6.5	6.0	---	---		
16	---	---	14.0	13.5	8.5	8.5	6.0	6.0	---	---		
17	---	---	13.5	13.5	8.5	8.0	6.0	5.5	---	---		
18	---	---	13.5	13.5	8.5	8.0	6.0	5.5	---	---		
19	---	---	13.5	13.5	8.0	8.0	6.0	5.5	---	---		
20	---	---	13.5	13.0	8.0	7.5	5.5	5.5	---	---		
21	---	---	13.5	13.0	8.0	7.5	5.5	5.5	---	---		
22	---	---	13.5	13.0	8.0	7.5	5.5	5.5	---	---		
23	---	---	14.0	13.5	7.5	7.5	5.5	5.5	---	---		
24	17.0	17.0	13.5	13.0	7.5	7.5	5.5	5.5	---	---		
25	17.0	17.0	13.0	13.0	7.5	7.0	5.5	5.5	---	---		
26	17.5	17.0	13.0	12.0	7.5	7.0	5.5	5.5	---	---		
27	18.0	17.5	12.5	12.0	7.5	7.0	5.5	5.5	---	---		
28	18.0	17.5	12.0	11.5	7.5	7.0	6.0	5.5	---	---		
29	17.5	17.5	11.5	11.0	7.5	7.0	6.0	6.0	---	---		
30	18.0	17.5	11.0	10.5	7.5	7.0	6.0	6.0	---	---		
31	18.0	17.5	---	---	7.5	7.0	6.0	6.0	---	---		
MONTH	---	---	18.0	10.5	10.5	7.0	7.0	5.5	---	---		

06918990 STOCKTON LAKE NEAR STOCKTON, MO.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
SAMPLING DEPTH 20.00(FT.).

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---							---	---	27.5	26.5
2	---	---							---	---	31.0	27.0
3	6.0	6.0							---	---	30.0	27.0
4	6.5	6.0							---	---	30.5	26.5
5	7.0	6.5							---	---	28.0	26.0
6	7.5	6.5							---	---	26.0	25.5
7	7.0	7.0							---	---	26.5	26.0
8	7.0	7.0							---	---	26.5	26.5
9	7.5	7.0							---	---	28.0	26.5
10	7.5	7.0							---	---	27.0	26.5
11	7.0	7.0							---	---	---	---
12	7.5	7.0							---	---	---	---
13	8.0	7.5							---	---	---	---
14	8.0	7.0							---	---	---	---
15	8.0	7.5							---	---	---	---
16	8.5	8.0							---	---	---	---
17	9.0	8.5							---	---	---	---
18	9.0	9.0							---	---	24.0	23.5
19	9.0	8.5							28.5	27.5	24.0	23.0
20	9.0	8.5							29.0	27.5	23.0	22.5
21	---	---							29.5	28.0	22.5	22.0
22	---	---							29.5	28.5	22.0	21.0
23	---	---							29.0	28.5	21.5	21.0
24	---	---							29.0	28.5	21.0	20.5
25	---	---							29.0	28.0	20.5	20.0
26	---	---							28.0	27.5	21.5	20.0
27	---	---							27.5	27.5	20.5	20.5
28	---	---							27.5	27.5	20.5	20.5
29	---	---							27.5	27.0	21.5	20.5
30	---	---							27.0	26.5	21.5	20.0
31	---	---							27.0	26.5	---	---
MONTH	---	---							---	---	---	---

06918990 STOCKTON LAKE NEAR STOCKTON, MO.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
SAMPLING DEPTH 70.00(FT.).

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	17.5	17.5	10.5	10.0	6.5	6.0	5.0	5.0		
2	---	---	17.5	17.5	10.0	10.0	6.5	6.0	5.0	5.0		
3	---	---	17.5	17.0	10.0	9.5	6.0	6.0	5.0	5.0		
4	---	---	17.5	17.0	10.0	9.5	6.0	6.0	5.5	5.0		
5	---	---	17.0	17.0	9.5	9.5	6.0	6.0	5.0	5.0		
6	---	---	17.0	16.5	9.5	9.5	6.0	6.0	5.0	4.5		
7	---	---	17.0	16.5	9.5	9.0	6.0	6.0	5.0	4.5		
8	---	---	16.5	16.5	9.0	9.0	6.5	6.0	4.5	4.5		
9	---	---	16.5	16.0	9.0	9.0	6.0	6.0	4.5	4.0		
10	---	---	16.0	16.0	9.0	8.5	6.5	6.0	4.5	4.0		
11	---	---	16.0	15.5	9.0	8.5	6.0	6.0	4.0	4.0		
12	---	---	15.5	15.0	8.5	8.5	6.0	5.5	4.0	4.0		
13	---	---	15.0	14.5	8.5	8.0	5.5	5.5	4.0	4.0		
14	---	---	14.5	14.0	8.5	8.0	5.5	5.5	---	---		
15	---	---	14.0	14.0	8.0	8.0	5.5	5.0	---	---		
16	---	---	14.0	13.5	8.0	7.5	5.5	5.5	---	---		
17	---	---	13.5	13.5	7.5	7.5	5.5	5.0	---	---		
18	---	---	13.5	13.5	7.5	7.0	5.0	5.0	---	---		
19	---	---	13.5	13.5	7.0	7.0	5.0	5.0	---	---		
20	---	---	13.5	13.0	7.0	7.0	5.0	5.0	---	---		
21	---	---	13.0	13.0	7.0	7.0	5.0	4.5	---	---		
22	---	---	13.0	13.0	7.0	7.0	5.0	4.5	---	---		
23	---	---	13.5	13.0	7.0	7.0	5.0	5.0	---	---		
24	17.5	17.5	13.0	13.0	7.0	7.0	5.0	5.0	---	---		
25	17.5	17.5	13.0	12.5	7.0	7.0	5.0	4.5	---	---		
26	17.5	17.5	13.0	12.0	7.0	7.0	5.0	4.5	---	---		
27	17.5	17.5	12.5	12.0	7.0	6.5	5.0	5.0	---	---		
28	17.5	17.5	12.0	11.5	7.0	6.5	5.0	5.0	---	---		
29	17.5	17.5	11.5	11.5	6.5	6.5	5.5	5.0	---	---		
30	17.5	17.5	11.5	10.5	6.5	6.5	5.5	5.0	---	---		
31	17.5	17.5	---	---	6.5	6.5	5.0	5.0	---	---		
MONTH	---	---	17.5	10.5	10.5	6.5	6.5	4.5	---	---		

06918990 STOCKTON LAKE NEAR STOCKTON, MO.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
SAMPLING DEPTH 70.00(FT.).

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---							---	---	29.5	29.5
2	---	---							---	---	32.0	29.5
3	6.0	5.5							---	---	31.5	29.5
4	6.5	6.0							---	---	32.0	29.0
5	7.0	6.5							---	---	29.5	27.5
6	7.0	7.0							---	---	27.5	27.0
7	7.5	7.0							---	---	28.0	27.5
8	7.5	7.0							---	---	28.0	27.5
9	8.0	7.5							---	---	28.0	27.5
10	8.0	7.5							---	---	28.5	28.0
11	7.5	7.5							---	---	29.5	23.0
12	8.0	7.5							---	---	---	---
13	8.0	8.0							---	---	---	---
14	8.5	8.0							---	---	---	---
15	---	---							---	---	---	---
16	---	---							---	---	---	---
17	---	---							---	---	---	---
18	---	---							---	---	22.5	22.0
19	---	---							30.5	30.5	22.5	22.0
20	---	---							31.5	30.5	22.0	21.0
21	---	---							31.5	31.0	21.0	20.5
22	---	---							32.0	31.0	20.5	20.5
23	---	---							31.5	31.0	20.5	20.0
24	---	---							31.5	31.5	20.5	18.5
25	---	---							31.5	31.0	20.0	19.0
26	---	---							31.5	31.0	19.5	18.5
27	---	---							31.0	30.5	19.5	19.0
28	---	---							30.5	30.5	19.5	19.0
29	---	---							30.5	30.5	19.5	19.0
30	---	---							30.5	29.5	19.5	18.5
31	---	---							30.0	29.5	---	---
MONTH	---	---							---	---	32.0	18.5

06921350 POMME DE TERRE RIVER NEAR HERMITAGE, MO.

LOCATION.--Lat 37°54'20", long 93°19'45", in NW¼NW¼ sec.2, T.36 N., R.22 W., Hickory County, temperature recorder on right bank 2,000 ft (610 m) downstream from outlet of Pomme de Terre Lake, 2.5 mi (4.0 km) southwest of Hermitage, 4.5 mi (7.2 km) upstream from Green Branch, and at mile 43.4 (69.8 km).

DRAINAGE AREA.--615 mi² (1,590 km²).

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	20.0	18.0	17.5	10.0	9.0	6.5	6.0				
2	20.5	20.0	17.5	17.0	9.0	8.0	6.0	5.5				
3	20.0	19.5	17.5	16.0	9.5	8.5	5.5	5.5				
4	20.0	19.5	16.5	15.5	10.0	9.0	5.5	5.0				
5	20.0	19.5	16.5	16.0	9.5	9.5	5.5	5.0				
6	20.0	19.5	16.0	16.0	9.5	9.0	5.5	5.0				
7	19.5	19.0	16.0	15.5	9.0	9.0	6.0	5.5				
8	19.5	18.5	16.0	15.5	9.0	8.5	6.0	6.0				
9	19.0	18.5	16.0	15.5	8.5	8.0	6.0	6.0				
10	19.5	18.0	15.5	15.5	8.5	8.0	6.0	5.5				
11	19.5	19.0	15.5	15.0	8.0	8.0	5.5	5.0				
12	19.5	18.5	15.0	14.5	8.0	7.5	5.0	4.5				
13	19.5	18.5	14.5	14.0	8.0	7.5	4.5	4.0				
14	19.0	17.5	14.0	13.5	8.0	7.5	5.0	4.0				
15	17.5	17.5	13.5	13.0	8.0	7.5	5.0	4.0				
16	17.5	17.0	13.0	13.0	8.0	8.0	4.5	4.0				
17	17.5	17.0	13.0	12.5	8.0	7.5	---	---				
18	18.0	17.0	12.5	12.5	8.0	7.5	---	---				
19	17.5	17.0	12.5	12.5	8.5	8.0	---	---				
20	17.5	17.0	12.5	12.5	8.5	8.0	---	---				
21	17.5	17.0	13.0	12.5	8.0	8.0	---	---				
22	17.0	17.0	12.5	12.0	8.0	7.5	---	---				
23	17.0	17.0	13.0	12.0	8.0	7.0	---	---				
24	17.5	17.0	12.5	12.0	7.5	7.5	---	---				
25	17.0	17.0	13.5	12.5	7.5	7.0	---	---				
26	17.5	17.0	13.5	12.5	7.0	6.5	---	---				
27	17.5	17.0	12.5	11.0	7.0	6.5	---	---				
28	17.5	17.5	11.0	10.5	6.5	6.0	---	---				
29	17.5	17.5	10.5	10.0	6.5	6.5	---	---				
30	18.0	17.5	10.0	9.5	6.5	6.5	---	---				
31	18.0	17.5	---	---	6.5	6.5	---	---				
MONTH	20.5	17.0	18.0	9.5	10.0	6.0	---	---				

06921350 POMME DE TERRE RIVER NEAR HERMITAGE, MO.--Continued

PERIOD OF RECORD.--Water temperatures: October 1974 to September 1975.

REMARKS.--Recorder inoperative on many days during the year.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	17.5	16.0	23.5	22.5	13.0	12.5	27.5	26.5	27.0	26.5
2	---	---	19.0	17.0	24.0	22.5	13.0	12.5	26.5	26.5	27.0	26.5
3	---	---	17.0	16.5	24.5	22.5	13.0	12.5	26.5	26.0	27.0	26.5
4	---	---	18.5	17.0	24.5	24.0	26.5	13.0	27.0	26.5	27.0	26.0
5	---	---	19.5	17.5	24.5	24.0	28.0	26.5	27.0	26.5	27.0	25.5
6	---	---	19.5	18.5	24.5	24.0	27.5	23.0	27.0	26.5	26.0	25.5
7	---	---	20.0	18.0	24.0	23.0	23.5	22.5	27.5	26.5	26.5	26.0
8	---	---	19.5	18.5	25.0	23.0	23.0	22.5	27.5	26.5	26.5	26.0
9	---	---	19.5	18.0	24.5	24.0	23.0	22.5	27.5	26.5	26.5	26.0
10	---	---	19.5	18.0	24.5	23.5	23.0	22.0	27.5	26.5	26.5	26.0
11	---	---	21.0	18.5	24.0	23.5	23.0	22.0	27.5	27.0	26.0	25.0
12	---	---	20.5	19.0	24.0	23.0	22.5	22.0	28.0	27.0	25.0	24.0
13	---	---	20.0	19.5	24.5	23.5	22.5	21.5	27.5	27.0	24.5	24.0
14	---	---	20.5	19.5	25.0	24.0	23.0	22.5	27.0	26.5	24.0	23.5
15	---	---	20.0	17.0	24.5	24.0	23.0	17.0	27.0	27.0	23.5	23.0
16	---	---	20.0	18.0	24.5	23.5	27.0	16.5	27.0	26.5	23.0	22.5
17	---	---	20.5	19.5	24.5	23.0	27.0	26.5	27.5	27.0	23.0	22.5
18	---	---	23.0	20.5	25.5	24.5	27.0	27.0	27.0	26.5	23.5	23.0
19	---	---	24.0	22.0	25.5	25.0	27.0	26.5	27.5	27.0	23.0	14.0
20	---	---	24.0	23.5	26.0	25.0	27.0	26.5	27.5	27.0	15.0	14.5
21	---	---	24.0	23.0	26.5	25.0	26.5	26.5	28.5	27.5	15.0	14.5
22	14.0	11.5	24.0	23.0	26.0	25.0	27.5	26.0	28.5	27.5	15.0	14.5
23	14.0	11.0	24.5	22.5	26.0	25.0	28.5	27.0	29.0	28.0	15.0	14.5
24	12.0	11.0	24.5	23.0	26.5	25.5	28.0	26.5	28.5	28.0	15.0	15.0
25	11.0	11.0	24.5	23.0	26.5	25.0	26.5	26.5	28.0	27.5	17.0	15.0
26	11.0	11.0	24.5	22.0	26.0	12.5	27.5	26.5	27.5	26.5	17.5	17.0
27	13.0	11.0	23.0	22.0	13.0	12.5	27.5	27.0	27.0	26.5	18.5	17.5
28	17.5	11.0	24.0	23.0	13.0	12.5	27.5	27.0	27.0	26.5	19.0	18.5
29	18.0	17.0	24.5	23.5	13.0	12.5	27.5	27.0	26.5	26.0	19.5	19.0
30	17.5	16.0	24.5	22.5	13.0	12.5	28.5	27.0	26.5	26.0	19.5	19.0
31	---	---	22.5	21.0	---	---	28.0	14.0	26.5	26.0	---	---
MONTH	---	---	24.5	16.0	26.5	12.5	28.5	12.5	29.0	26.0	27.0	14.0

06921500 POMME DE TERRE RIVER AT HERMITAGE, MO.

LOCATION.--Lat 37°56'45", long 93°18'35", in SE¼NE¼ sec.23, T.37 N., R.22 W., Hickory County, temperature recorder inside concrete house previously used for gaging station at bridge on U.S. Highway 54, 1.5 mi (2.4 km) downstream from Mill Creek and 0.25 mi (0.40 km) northeast of Hermitage.

DRAINAGE AREA.--655 mi² (1,696 km²).

PERIOD OF RECORD.--Water temperature: March 1970 to September 1975.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	17.0	18.0	16.5	6.5	6.0	6.0	5.0	5.5	5.0	---	---
2	18.5	17.0	17.5	16.0	6.5	5.5	5.0	3.5	5.5	5.0	---	---
3	18.5	16.5	16.0	14.5	6.0	4.5	5.0	4.0	7.0	5.5	---	---
4	19.5	17.5	14.5	12.5	6.0	4.5	4.5	3.0	6.5	5.0	---	---
5	20.5	18.5	13.0	11.5	7.5	5.5	4.5	2.5	5.0	4.5	---	---
6	20.5	19.0	12.5	11.0	8.0	7.5	5.5	4.5	4.5	4.0	---	---
7	19.0	17.0	12.5	11.5	7.5	7.0	6.0	5.0	4.5	3.5	---	---
8	17.5	15.5	13.5	12.0	7.0	5.0	5.5	5.0	4.5	3.5	---	---
9	18.0	16.0	13.0	12.0	5.0	3.5	5.5	5.0	4.0	3.5	---	---
10	18.5	16.0	13.5	13.0	6.5	4.5	6.0	5.5	4.0	3.5	---	---
11	19.5	16.5	13.0	12.5	6.5	6.0	6.0	5.0	4.0	3.5	---	---
12	20.0	19.0	12.5	11.5	7.5	6.5	5.5	4.5	4.0	3.5	---	---
13	21.0	19.5	11.5	10.5	8.0	7.0	5.5	4.5	4.0	3.5	---	---
14	21.0	17.5	13.5	9.5	8.0	7.0	5.0	4.5	4.5	4.0	---	---
15	17.5	15.5	14.0	13.5	7.5	7.0	5.5	4.5	4.0	3.5	---	---
16	16.5	14.5	13.5	13.0	7.0	6.5	5.0	4.0	4.0	3.5	---	---
17	18.0	15.5	13.0	13.0	7.0	6.5	4.5	3.5	4.0	3.5	---	---
18	18.0	16.0	13.0	13.0	7.0	6.0	5.5	4.0	4.0	3.5	---	---
19	17.5	15.5	13.0	13.0	7.0	6.0	5.5	3.5	5.0	3.5	---	---
20	17.0	15.0	13.0	12.5	7.0	6.0	4.0	2.5	---	---	---	---
21	16.0	15.0	13.0	12.5	6.5	6.0	5.0	3.5	---	---	---	---
22	16.5	15.0	13.0	12.5	7.0	6.0	4.0	3.0	---	---	---	---
23	17.0	15.5	13.0	12.5	7.0	6.5	4.5	2.5	---	---	---	---
24	18.0	16.0	12.5	12.5	6.5	6.0	5.0	3.5	---	---	8.0	7.0
25	18.0	17.0	12.5	12.0	6.0	5.5	5.5	4.0	---	---	7.5	6.5
26	18.0	17.0	12.5	11.5	6.0	5.0	5.5	4.0	---	---	7.5	6.5
27	18.0	16.5	11.5	9.5	6.0	5.5	6.0	3.5	---	---	8.0	7.0
28	17.5	16.0	9.5	8.0	6.0	5.5	6.0	5.5	---	---	7.5	6.5
29	18.0	16.0	9.0	5.5	6.5	6.0	7.5	6.0	---	---	7.5	6.5
30	19.5	17.0	6.0	5.5	6.0	5.5	7.0	5.5	---	---	8.0	6.5
31	19.5	18.0	---	---	6.5	6.0	5.5	5.5	---	---	8.0	6.5
MONTH	21.0	14.5	18.0	5.5	8.0	3.5	7.5	2.5	---	---	---	---

06921500 POMME DE TERRE RIVER AT HERMITAGE, MO.--Continued

EXTREMES 1974-75.--Water temperature: Maximum, 30.0°C July 21-23, Aug. 23; minimum, 2.5°C Jan. 5, 20, 23.

EXTREMES, March 1970 to September 1975.--Water temperatures: Maximum, 31.5°C Aug. 2, 3, 4, 1970; minimum, 0.5°C Feb. 6, 7, 1971.

REMARKS.--Temperature recorder inoperative on many days during the year.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	7.0	18.5	16.5	23.0	21.5	---	---	23.0	21.5	27.5	25.5
2	8.0	7.0	19.0	16.5	---	---	---	---	25.0	23.0	28.0	26.5
3	8.0	6.5	18.5	16.0	---	---	---	---	27.0	25.0	28.5	26.5
4	9.5	6.5	19.5	17.0	---	---	---	---	27.0	25.0	28.5	27.0
5	10.5	7.5	21.0	19.0	---	---	---	---	26.5	25.0	27.5	26.5
6	11.0	8.0	22.0	21.0	---	---	---	---	---	---	26.5	25.0
7	10.5	8.0	23.5	21.0	---	---	---	---	---	---	25.0	24.0
8	9.5	8.5	24.0	22.0	---	---	---	---	---	---	25.0	24.0
9	12.0	9.0	24.0	22.0	---	---	---	---	---	---	25.0	24.0
10	11.5	8.5	23.5	22.5	---	---	26.0	25.0	---	---	25.0	23.5
11	10.0	9.0	23.0	21.5	24.0	22.5	25.5	23.0	---	---	23.5	21.5
12	11.5	7.5	22.5	21.0	24.5	22.0	24.5	22.0	---	---	21.5	20.0
13	11.0	8.5	21.5	20.5	26.0	24.0	24.5	21.0	---	---	20.0	18.0
14	10.0	9.0	22.0	20.0	27.0	25.5	24.5	21.5	---	---	19.5	19.0
15	12.5	9.0	22.5	20.5	27.0	25.0	26.0	21.0	---	---	19.0	18.5
16	13.5	9.5	21.5	19.5	26.0	23.5	25.0	22.0	---	---	19.5	19.5
17	13.5	11.0	22.5	20.0	24.0	19.0	24.5	21.5	---	---	21.0	19.5
18	14.0	12.0	23.5	20.5	26.5	23.0	25.0	24.5	---	---	22.5	21.0
19	14.0	12.0	25.0	22.5	27.5	25.0	27.0	24.5	---	---	22.5	20.5
20	14.5	12.5	25.0	24.0	28.5	26.5	29.0	26.5	28.5	28.0	21.0	14.0
21	14.5	14.5	25.5	23.5	28.5	26.5	30.0	27.5	29.5	27.5	17.0	15.5
22	17.5	15.5	26.5	24.5	---	---	30.0	27.5	29.5	27.5	17.0	15.0
23	18.0	13.0	26.5	25.5	---	---	30.0	28.0	30.0	27.5	17.0	15.0
24	14.0	12.5	25.5	24.5	28.0	26.0	29.0	27.5	29.0	28.0	17.0	15.5
25	14.0	12.0	25.0	23.5	28.0	24.0	28.0	26.5	28.0	26.5	16.5	14.5
26	13.5	12.5	25.0	24.0	---	---	27.5	24.5	26.5	22.5	16.5	15.0
27	14.5	12.5	25.0	23.0	---	---	29.0	26.5	25.5	24.0	18.5	15.5
28	15.5	12.5	24.5	23.5	---	---	29.0	27.0	25.0	24.5	18.5	17.0
29	17.5	14.0	25.0	23.0	---	---	28.5	27.0	25.5	24.5	18.5	15.5
30	18.5	17.5	24.5	22.5	---	---	28.5	26.5	25.5	24.0	19.0	17.5
31	---	---	23.5	21.5	---	---	27.5	22.5	26.5	25.0	---	---
MONTH	18.5	6.5	26.5	16.0	---	---	---	---	---	---	28.5	14.5

06922500 OSAGE RIVER AT WARSAW, MO.

LOCATION.--Lat 38°14'40", long 92°23'10", in NE¼SW¼ sec.17, T.40 N., R.22 W., Benton County, temperature recorder at Union Electric Co. gaging station on left bank, 50 ft (9.2 m) downstream from bridge on State Highway 7 at warsaw.

DRAINAGE AREA.--11,500 mi² (29,800 km²).

PERIOD OF RECORD.--Water temperatures: May 1969 to September 1975.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL-ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	5.0	4.5	3.5	3.5	2.0	2.0	3.5	3.5
2	---	---	---	---	4.5	4.5	3.5	3.5	2.0	2.0	4.0	3.5
3	---	---	---	---	4.5	4.5	3.5	3.5	2.0	2.0	4.5	4.0
4	---	---	---	---	4.5	4.0	3.5	3.0	2.0	2.0	4.5	4.5
5	---	---	---	---	4.0	4.0	3.0	3.0	2.0	2.0	4.5	4.5
6	---	---	---	---	4.0	3.5	3.0	3.0	2.0	2.0	5.0	4.5
7	---	---	---	---	4.0	3.5	3.0	3.0	2.0	2.0	5.0	5.0
8	---	---	---	---	3.5	3.5	3.0	3.0	2.0	2.0	5.5	5.0
9	---	---	---	---	3.5	3.5	3.0	3.0	2.0	2.0	5.5	5.5
10	---	---	---	---	3.5	3.5	3.5	3.0	2.0	2.0	5.5	5.5
11	---	---	---	---	3.5	3.5	3.5	3.5	2.0	2.0	5.5	5.5
12	---	---	---	---	3.5	3.0	3.5	3.5	2.0	2.0	5.5	5.0
13	---	---	---	---	3.0	3.0	3.5	3.5	2.0	2.0	5.5	5.5
14	---	---	---	---	3.0	3.0	3.5	3.5	2.0	2.0	5.5	5.5
15	---	---	---	---	3.5	3.0	3.5	3.0	3.0	2.0	5.5	5.5
16	---	---	---	---	3.5	3.0	3.0	2.0	3.0	3.0	5.5	5.5
17	---	---	---	---	3.5	3.0	3.0	2.0	3.0	3.0	5.5	5.5
18	---	---	---	---	3.0	3.0	3.0	2.0	3.0	3.0	5.5	5.5
19	---	---	5.5	5.5	3.0	3.0	2.0	2.0	3.0	3.0	5.5	5.5
20	---	---	6.0	5.5	3.0	3.0	3.0	2.0	3.0	3.0	5.5	5.5
21	---	---	6.0	6.0	3.0	3.0	3.0	2.0	3.5	3.0	6.0	5.5
22	---	---	6.0	6.0	3.0	3.0	2.0	2.0	3.5	3.5	6.5	6.0
23	16.0	16.0	6.0	6.0	3.5	3.0	2.0	2.0	3.5	3.5	6.5	6.5
24	16.0	16.0	6.0	6.0	3.5	3.5	2.0	2.0	4.0	3.5	7.0	6.5
25	16.0	16.0	6.0	5.5	3.5	3.5	2.0	1.5	4.0	3.5	8.0	7.0
26	16.0	16.0	6.0	6.0	3.5	3.5	2.0	1.5	3.5	3.5	8.0	8.0
27	16.0	16.0	6.0	6.0	3.5	3.5	2.0	2.0	4.0	3.5	8.0	8.0
28	16.0	16.0	6.0	5.5	3.5	3.5	2.0	2.0	4.0	3.5	8.0	8.0
29	16.0	15.5	5.5	5.0	3.5	3.5	2.0	2.0	---	---	8.0	8.0
30	15.5	15.5	5.0	5.0	3.5	3.0	3.0	2.0	---	---	8.0	8.0
31	15.5	15.5	---	---	4.0	3.5	3.0	2.0	---	---	8.0	7.0
MONTH	---	---	---	---	5.0	3.0	3.5	1.5	4.0	2.0	8.0	3.5

06922500 OSAGE RIVER AT WARSAW, MO.--Continued

EXTREMES, 1974-75.--Water temperatures: Maximum 33.5°C Aug. 25, 26; minimum 1.5°C Jan. 25, 26.

EXTREMES, May 1969-75.--Water temperatures: Maximum 33.5°C Aug. 25, 26, 1975; minimum, 0.5°C Jan. 7, 1971, Jan. 18, 1974.

REMARKS.--Temperature recorder inoperative Oct. 1-22, Nov. 1-18.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL-ALCOHOL-ACTUATED THERMOGRAPH)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	7.0	19.5	19.5	24.0	24.0	27.0	26.5	32.0	32.0	28.5	28.5
2	8.0	7.0	19.5	19.5	24.0	23.0	28.0	27.0	32.0	31.5	28.5	28.5
3	8.0	8.0	19.5	19.5	23.0	22.0	28.5	28.0	31.5	31.5	28.5	28.0
4	8.0	8.0	20.0	19.5	22.0	22.0	28.5	28.0	31.5	31.5	28.0	28.0
5	8.5	8.0	20.0	20.0	22.0	22.0	28.5	28.5	32.0	31.5	28.0	28.0
6	8.5	8.5	20.0	20.0	22.0	21.5	29.0	28.5	33.0	32.0	28.0	27.0
7	8.5	8.5	21.0	20.0	23.0	21.5	29.5	29.0	33.0	33.0	27.0	27.0
8	8.5	8.5	21.5	21.0	23.5	23.0	29.5	29.5	33.0	33.0	27.0	27.0
9	9.0	8.5	21.5	21.5	23.5	23.0	30.0	29.5	33.0	32.0	27.0	26.5
10	9.5	9.0	21.5	21.5	23.5	23.0	30.0	30.0	33.0	32.0	27.0	26.5
11	10.0	9.5	22.0	21.5	23.5	23.0	30.0	30.0	32.0	32.0	27.0	26.5
12	10.5	10.0	23.0	22.0	23.0	22.5	30.0	30.0	32.0	32.0	26.5	26.0
13	10.5	10.5	23.5	23.0	23.0	22.0	30.0	30.0	32.0	32.0	26.0	25.0
14	10.5	10.5	24.0	23.5	23.0	22.0	30.0	30.0	32.0	32.0	25.0	25.0
15	11.0	10.5	24.0	24.0	22.0	22.0	30.0	30.0	32.0	32.0	25.0	24.5
16	11.0	11.0	24.5	24.0	22.0	22.0	30.0	30.0	32.0	32.0	24.5	23.5
17	11.0	11.0	24.0	24.0	22.0	22.0	30.0	29.5	32.0	32.0	23.5	23.5
18	12.0	11.0	24.0	24.0	22.0	21.5	29.5	29.5	32.0	32.0	23.5	23.0
19	13.0	12.0	24.0	24.0	22.0	22.0	29.5	29.5	32.0	32.0	23.5	22.0
20	13.0	13.0	24.0	23.5	22.0	22.0	29.5	29.5	32.0	32.0	23.0	22.0
21	13.5	13.0	24.0	24.0	23.0	22.0	30.0	29.5	32.0	32.0	22.0	22.0
22	14.0	13.5	24.0	23.5	24.0	23.0	30.5	30.0	33.0	32.0	22.0	21.5
23	14.0	14.0	23.5	23.5	24.5	24.0	30.5	30.5	33.0	33.0	21.5	21.0
24	19.5	14.0	24.0	23.5	24.5	24.5	30.5	30.5	33.0	33.0	21.0	21.0
25	19.5	17.0	24.5	23.5	25.0	24.5	31.0	30.5	33.5	33.0	21.0	21.0
26	18.0	17.0	24.5	23.5	25.5	25.0	31.0	31.0	33.5	32.0	21.0	21.0
27	18.5	18.0	25.0	24.5	25.5	25.0	31.0	31.0	32.0	30.5	21.0	20.5
28	19.0	18.5	25.0	24.5	26.0	25.5	31.0	31.0	30.5	29.5	20.5	20.5
29	19.0	19.0	24.5	24.0	26.0	25.5	31.5	31.0	29.5	29.0	20.5	20.0
30	19.5	19.0	25.0	24.5	26.5	26.0	31.5	31.5	29.0	28.5	20.0	19.5
31	---	---	24.5	24.0	---	---	32.0	31.5	28.5	28.5	---	---
MONTH	19.5	7.0	25.0	19.5	26.5	21.5	32.0	26.5	33.5	28.5	28.5	19.5

06922800 BIG BUFFALO CREEK NEAR STOVER, MO.

LOCATION.--Lat 38°20'04", long 93°05'04", in NE¼SE¼SW¼ sec.12, T.41 N., R.20 W., Morgan County, temperature recorder at gaging station on right bank, 1.5 mi (2.41 km) southwest of Boylers Mill, 3 mi (4.83 km) upstream from mouth, and 9 mi (14.5 km) southwest of Stover.

DRAINAGE AREA.--24.2 mi^2 (62.7 km^2).

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL-ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	14.5	15.0	14.0	6.5	6.5	5.5	4.5	5.5	5.0	6.5	5.5
2	15.5	13.5	14.5	13.5	6.5	6.0	4.5	4.5	5.0	5.0	5.5	4.5
3	14.5	13.5	13.5	13.5	6.5	5.5	4.5	4.5	6.0	5.0	6.0	4.5
4	15.5	14.5	13.5	11.0	6.5	5.0	4.5	4.0	6.0	6.0	5.5	4.0
5	15.5	14.5	11.0	10.5	6.5	6.0	5.0	4.5	6.0	4.5	8.0	4.5
6	15.5	14.5	11.0	10.0	6.5	6.0	5.5	5.0	4.5	3.5	6.5	5.5
7	14.5	13.5	10.5	10.0	6.5	6.5	5.5	5.0	4.0	2.0	6.5	6.0
8	14.5	13.5	11.0	10.0	6.5	5.0	5.5	5.5	4.0	3.5	6.0	4.5
9	14.5	13.5	10.5	10.0	5.0	4.5	5.5	5.0	3.5	3.0	5.0	3.5
10	14.5	13.5	10.5	10.0	5.0	4.5	7.0	5.5	4.0	3.0	4.0	3.5
11	15.0	13.5	11.0	10.5	5.0	5.0	6.5	4.5	4.0	4.0	4.5	4.0
12	15.0	14.5	10.5	9.5	5.5	5.0	4.5	3.5	4.0	4.0	4.5	4.5
13	15.5	14.5	9.5	9.0	5.5	5.0	3.5	3.0	4.0	4.0	4.5	3.5
14	15.5	14.5	9.0	8.5	5.5	5.0	4.0	3.0	5.0	4.0	6.0	3.5
15	14.5	13.5	9.0	8.0	5.5	5.0	4.5	3.5	5.0	5.0	6.5	4.0
16	14.5	13.0	9.0	9.0	5.5	5.0	4.5	4.0	5.0	5.0	7.0	6.0
17	14.5	13.5	9.0	9.0	5.5	4.5	4.0	4.0	5.0	4.5	9.0	5.5
18	14.5	13.5	9.5	9.0	5.0	4.5	5.0	4.0	4.5	4.5	8.0	6.5
19	14.0	13.0	10.0	9.5	5.0	4.5	5.0	4.5	5.0	4.5	10.0	7.0
20	14.0	13.5	10.0	9.5	5.0	5.0	4.5	3.0	5.5	4.0	11.0	7.0
21	14.0	13.0	9.5	9.0	5.5	5.0	4.5	4.0	7.0	5.5	11.0	9.0
22	14.0	13.0	10.0	9.0	5.5	5.0	4.5	4.0	7.0	5.0	11.0	9.0
23	14.0	13.5	11.0	10.0	5.5	5.5	5.0	3.5	5.0	3.0	11.5	9.5
24	14.5	13.5	11.0	9.0	5.5	5.5	5.0	4.5	3.5	3.0	11.0	8.5
25	15.0	14.0	9.0	8.5	5.5	4.5	5.0	5.0	5.5	3.5	9.0	6.5
26	15.0	14.0	9.0	8.5	4.5	4.5	5.0	4.5	5.5	4.0	9.0	6.5
27	14.5	14.0	9.0	8.0	5.0	4.5	5.0	4.5	5.5	4.0	8.5	7.0
28	14.5	13.5	8.5	8.0	5.0	4.5	5.5	4.5	6.5	4.5	8.0	6.5
29	15.0	13.5	8.0	6.0	5.5	4.5	6.0	5.5	---	---	6.5	6.0
30	15.5	14.0	6.5	6.0	5.5	5.5	6.0	5.5	---	---	8.5	5.0
31	15.5	15.0	---	---	5.5	5.5	5.5	5.5	---	---	10.0	6.0
MONTH	15.5	13.0	15.0	6.0	6.5	4.5	7.0	3.0	7.0	2.0	11.5	3.5

0692280 BIG BUFFALO CREEK NEAR STOVER, MO.--Continued

PERIOD OF RECORD.--Water temperatures: April 1965 to September 1973, October 1974 to September 1975.

EXTREMES, 1974-75.--Water temperatures: Maximum, 25.0°C Aug. 19, 21-24, Sept. 1; minimum, 2.0°C Feb. 7.

EXTREMES, 1965-73, 1974-75.--Water temperatures: Maximum, 27°C July 12, 13, 14, 18, 1966; minimum, 1.0°C Jan. 21, 1970.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS ETHYL-ALCOHOL-ACTUATED THERMOGRAPH)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	8.0	16.5	14.0	19.0	16.5	22.0	20.5	23.0	21.5	25.0	22.0
2	10.5	7.0	15.5	14.5	19.5	17.0	23.0	21.0	22.0	21.0	24.5	23.0
3	9.5	6.0	15.5	14.5	20.5	18.0	23.0	21.0	23.0	21.0	24.5	22.0
4	10.5	6.5	16.5	14.0	20.0	19.0	23.5	21.0	23.5	20.5	23.5	22.0
5	11.0	8.0	17.0	15.0	22.0	19.0	23.5	21.0	24.0	21.0	23.0	22.0
6	11.5	8.5	17.0	16.0	22.0	19.0	23.5	21.0	24.0	21.5	22.0	20.5
7	11.0	9.0	19.0	15.5	21.0	19.5	23.5	21.0	23.5	21.0	22.0	20.0
8	9.5	9.0	19.5	16.0	21.0	19.0	23.5	21.0	23.5	21.0	22.0	20.5
9	13.5	9.5	19.5	16.5	20.5	19.5	23.5	21.5	23.5	21.0	22.0	20.5
10	12.0	9.5	18.5	16.5	20.0	19.5	23.5	21.0	24.0	21.0	22.0	21.0
11	10.5	9.0	18.5	16.0	19.5	19.0	23.0	20.5	24.5	21.5	21.5	20.0
12	11.5	8.5	18.5	16.0	20.5	18.5	22.0	20.0	24.5	22.0	20.0	19.0
13	11.0	9.5	17.0	15.5	21.0	19.5	22.0	20.0	23.0	22.0	19.5	18.5
14	9.5	9.0	18.0	15.5	21.5	19.5	22.0	20.0	22.0	22.0	19.5	19.0
15	11.5	9.5	18.5	16.0	21.0	19.5	23.0	20.0	22.0	22.0	19.0	19.0
16	14.0	10.0	18.5	15.5	20.0	19.0	23.0	20.5	23.5	21.5	19.0	19.0
17	14.0	11.0	18.5	15.5	20.5	19.0	23.0	21.0	23.5	22.0	19.5	18.5
18	14.0	12.0	19.0	16.0	22.0	20.0	23.0	21.0	24.0	21.0	20.5	19.5
19	13.5	11.0	19.5	17.0	22.0	20.0	23.5	21.0	25.0	22.0	20.0	19.5
20	14.0	10.0	19.5	17.0	23.0	20.5	23.5	21.0	24.0	23.0	19.5	18.0
21	14.5	11.0	20.0	17.0	23.5	20.5	24.0	21.5	25.0	23.0	18.5	18.0
22	14.5	11.0	20.5	18.0	22.0	21.0	24.0	21.5	25.0	23.0	18.0	17.0
23	15.0	13.5	20.5	19.0	22.0	20.5	24.0	21.5	25.0	23.0	18.0	16.5
24	15.0	13.0	20.0	19.0	23.0	21.0	23.0	21.5	25.0	23.0	18.0	17.0
25	16.5	13.0	20.5	19.0	22.0	21.0	23.0	20.5	24.5	23.0	18.0	16.5
26	16.5	14.5	20.5	19.0	22.0	21.0	22.0	20.5	23.0	22.0	18.0	16.5
27	18.0	15.5	20.5	18.5	22.0	21.0	23.5	20.5	24.0	21.5	18.0	16.5
28	17.0	15.5	19.5	19.0	23.0	21.0	24.0	21.0	23.0	23.0	18.0	17.0
29	18.0	14.5	21.0	19.0	23.0	21.0	24.0	21.0	23.0	22.0	18.0	16.5
30	17.0	15.5	20.0	18.0	22.0	21.0	24.0	21.5	24.0	22.0	18.0	17.0
31	---	---	19.0	17.0	---	---	24.0	21.5	24.0	21.5	---	---
MONTH	18.0	6.0	21.0	14.0	23.5	16.5	24.0	20.0	25.0	20.5	25.0	16.5

06926510 OSAGE RIVER BELOW ST. THOMAS, MO.
(National Stream Quality Accounting Network Station)

LOCATION.--Lat 38°25'18", long 92°12'31", Cole County, at bridge on State Highway B, 3.8 mi (6.1 km) north of St. Thomas, 8.6 mi (14 km) downstream from gaging station, and at mile 34.5 (55.5 km).

DRAINAGE AREA.--14,500 mi² (37,600 km²) approximately above gage.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT.										
18...	1100	7740	4.8	--	--	36	9.3	5.6	2.9	122
NOV.										
21...	1100	17800	6.4	50	10	29	6.7	4.4	3.6	92
DEC.										
19...	1030	14500	8.4	--	--	28	6.4	4.1	3.5	100
JAN.										
20...	1200	8780	7.7	330	140	38	10	4.9	3.7	138
FEB.										
13...	1120	31000	6.2	50	0	42	11	6.3	2.1	156
MAR.										
13...	1100	35000	5.7	--	--	35	9.9	5.3	2.8	122
APR.										
17...	1030	9380	6.7	--	--	39	9.9	6.0	2.3	144
MAY										
13...	1040	6610	5.8	40	30	37	14	4.5	2.6	148
JUNE										
04...	1145	10100	4.2	--	--	39	11	5.0	1.9	144
JULY										
23...	1000	4080	4.2	--	--	42	12	6.1	2.2	155
AUG.										
29...	1050	24700	4.0	40	200	38	10	6.1	2.6	150
SEP.										
24...	1200	5020	5.1	--	--	38	11	5.9	2.5	142

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	SUS-PENDED SEDI-MENT (MG/L)	TEMPER-ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.									
18...	268	7.9	62	18.5	--	6.0	63	60	90
NOV.									
21...	246	7.8	44	10.5	4.8	9.0	80	10	60
DEC.									
19...	230	7.6	110	5.5	--	8.7	69	560	100
JAN.									
20...	312	7.8	30	3.0	4.9	11.6	86	20	0
FEB.									
13...	327	8.2	38	2.0	5.2	10.4	75	40	86
MAR.									
13...	290	8.0	62	2.5	--	11.3	83	95	210
APR.									
17...	313	8.1	40	11.0	--	8.8	80	6	12
MAY									
13...	315	7.5	54	17.5	5.3	7.6	79	170	370
JUNE									
04...	300	7.8	69	18.0	--	6.8	71	50	440
JULY									
23...	325	7.9	20	26.0	--	7.2	88	300	150
AUG.									
29...	312	7.6	63	25.0	7.2	2.9	35	5500	4000
SEP.									
24...	295	8.0	46	20.0	--	5.8	63	260	110

06926510 OSAGE RIVER BELOW ST. THOMAS, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: October 1974 to September 1975.
Water temperatures: October 1974 to September 1975.

EXTREMES, 1974-75.--Specific conductance: Maximum, 359 micromhos Apr. 14; minimum, 192 micromhos May 7.
Water temperatures: Maximum, 28.5°C Aug. 21; minimum, 3.5°C Feb. 8-10, 25, 26.

REMARKS.--Records of discharge are given for gaging station 06926500 Osage River near St. Thomas.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.									
18...	0	35	5.0	.1	.07	166	120	24	100
NOV.									
21...	0	27	3.9	.1	.07	147	100	25	75
DEC.									
19...	0	27	3.8	.1	.09	152	96	14	82
JAN.									
20...	0	37	5.1	.1	.08	188	140	23	113
FEB.									
13...	0	35	6.0	.2	.08	196	150	24	126
MAR.									
13...	0	30	4.9	.2	.09	170	130	28	100
APR.									
17...	0	31	6.0	.1	.04	180	140	20	118
MAY									
13...	0	26	5.1	.1	.06	181	150	29	121
JUNE									
04...	0	28	4.9	.1	.03	182	140	25	118
JULY									
23...	0	31	5.7	.2	.02	191	150	27	127
AUG.									
29...	0	27	5.1	.2	.05	166	140	13	123
SEP.									
24...	0	25	3.9	.2	.05	177	140	24	116

DATE	TIME	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
NOV.											
21...	1100	0	0	0	3	2	.0	0	0	2	<10
JAN.											
20...	1200	1	0	0	26	9	.1	0	60	2	0
FEB.											
13...	1120	0	0	1	11	5	.0	0	10	0	10
MAY											
13...	1040	1	10	0	8	3	1.7	0	6	1	<10
AUG.											
29...	1050	1	10	0	4	9	.0	0	10	4	<10

DATE	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)
NOV.										
21...	0	<50	<10	1200	<100	75	.0	0	40	2
JAN.										
20...	0	<50	540	920	100	140	.3	1	140	1
FEB.										
13...	0	<50	100	1100	<100	70	.0	0	30	0
MAY										
13...	10	<50	20	1200	<100	80	.0	0	30	0
AUG.										
29...	20	<50	<10	1000	<100	340	.0	0	20	4

06926510 OSAGE RIVER BELOW ST. THOMAS, MO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	284	271	220	251	265	270	334	325	302	338	315	300
2	274	279	229	255	288	280	340	325	300	339	318	308
3	270	275	221	255	302	285	342	325	305	336	318	302
4	255	266	215	260	320	288	348	330	300	339	318	300
5	267	280	223	269	320	293	348	330	300	335	320	302
6	264	267	221	268	329	294	350	325	305	336	320	300
7	251	270	224	272	325	298	357	192	307	340	318	300
8	269	261	216	270	325	302	350	302	310	335	320	300
9	272	269	213	271	328	308	353	325	314	335	318	304
10	281	278	210	280	330	302	353	330	319	337	318	308
11	278	285	209	272	330	308	353	338	309	333	316	304
12	270	291	215	288	320	272	350	342	305	331	316	285
13	272	297	210	295	320	280	350	345	310	335	314	275
14	272	289	214	299	322	330	359	298	307	338	314	296
15	271	306	220	300	312	325	352	295	303	344	310	294
16	272	282	222	309	310	325	357	300	305	342	310	296
17	290	258	223	300	300	323	358	303	305	340	308	298
18	264	245	230	300	293	325	340	305	311	338	308	293
19	268	243	230	305	283	325	345	305	310	333	310	270
20	270	236	229	300	272	330	345	312	319	335	310	280
21	272	238	230	288	270	327	340	298	320	332	312	286
22	283	236	237	288	260	323	337	300	317	334	316	288
23	281	228	238	287	272	320	332	298	---	333	310	296
24	275	241	232	288	253	322	245	304	322	318	308	290
25	273	233	240	287	258	321	268	305	325	310	308	297
26	285	222	242	290	255	320	320	308	322	310	269	293
27	283	224	244	294	264	320	328	310	328	314	253	296
28	283	223	244	287	270	317	328	315	330	315	298	300
29	279	227	249	288	---	312	322	318	332	314	298	292
30	282	220	250	288	---	319	325	320	336	310	296	292
31	280	---	243	207	---	329	---	312	---	315	240	---
MONTH	274	257	227	281	295	310	338	311	313	330	308	295

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	18.5	8.5	5.5	5.0	5.0	7.0	14.0	17.5	22.5	25.0	25.0
2	18.0	17.0	7.5	5.5	5.0	4.5	8.0	14.5	18.0	22.0	26.0	26.0
3	18.0	17.5	7.5	5.0	4.5	4.5	7.5	14.0	18.0	22.0	26.5	25.5
4	18.0	16.0	7.5	5.0	4.5	4.0	8.0	14.5	18.0	23.0	25.5	26.5
5	18.5	16.0	9.0	5.0	5.0	4.0	9.0	15.0	17.0	25.0	26.5	25.0
6	18.5	16.0	8.5	5.5	4.5	5.0	8.5	15.5	19.0	25.0	26.5	25.0
7	17.5	15.5	9.0	5.5	4.0	5.0	8.5	16.0	19.0	25.5	26.0	27.0
8	17.0	15.0	8.0	5.5	3.5	4.5	8.0	16.0	20.0	23.0	26.0	25.0
9	17.0	15.0	7.0	5.5	3.5	4.5	9.5	16.0	20.5	24.0	25.0	25.0
10	16.5	15.0	7.5	6.0	3.5	4.5	10.0	16.0	21.5	23.0	27.0	25.5
11	16.5	15.0	9.0	5.0	4.5	4.5	9.0	16.0	18.5	23.0	27.0	25.0
12	18.0	14.5	7.5	4.5	4.0	5.0	10.0	16.5	20.0	22.5	27.0	23.0
13	18.5	14.0	7.0	4.5	4.0	4.5	10.0	17.0	19.0	23.5	26.0	22.0
14	18.5	13.5	9.0	4.5	4.0	5.0	10.0	15.5	20.5	22.0	26.0	23.0
15	17.5	13.0	7.0	4.0	4.5	5.0	9.5	16.0	20.5	23.5	24.5	23.0
16	16.5	13.0	7.0	4.5	4.5	5.5	10.5	17.0	20.0	24.0	26.0	23.0
17	16.0	12.0	6.5	4.0	4.0	5.5	11.5	17.5	20.0	25.0	27.0	24.0
18	17.0	12.0	6.0	4.5	4.0	5.5	12.0	18.0	21.5	26.0	27.0	23.0
19	17.0	12.0	6.0	5.0	4.0	5.5	11.5	19.0	20.5	26.5	27.0	23.5
20	17.0	12.0	6.0	5.0	4.5	7.0	11.5	21.0	20.5	28.0	28.0	22.5
21	16.0	11.0	7.5	5.0	5.0	6.5	12.5	18.0	21.0	---	28.5	21.5
22	15.5	11.0	6.5	5.0	5.0	6.5	12.0	20.0	---	---	27.5	21.5
23	15.0	12.0	6.5	4.5	5.0	7.0	13.0	17.5	---	27.0	27.0	20.0
24	17.0	11.0	6.5	5.0	4.0	7.0	14.0	19.5	22.5	25.5	25.5	21.5
25	17.5	10.0	5.5	4.5	3.5	6.0	15.0	20.0	21.5	25.5	26.0	20.0
26	18.0	10.0	5.0	4.5	3.5	7.0	13.0	20.0	21.5	26.5	25.5	20.5
27	18.0	10.0	---	4.5	4.0	7.0	14.0	20.0	22.0	26.5	24.5	21.0
28	17.5	9.0	6.0	5.0	4.5	7.0	15.0	21.0	22.0	26.0	28.0	21.0
29	17.5	9.5	7.0	5.0	---	7.0	14.0	22.0	22.0	26.5	25.0	21.0
30	17.5	8.5	6.0	5.0	---	6.0	14.5	23.0	22.0	25.5	25.0	21.5
31	19.0	---	6.0	---	---	7.0	---	21.0	---	25.0	25.0	---
MONTH	17.5	13.0	7.0	5.0	4.5	5.5	11.0	17.5	20.0	24.5	26.0	23.0

06926510 OSAGE RIVER BELOW ST. THOMAS, MO.--Continued

PHYTOPLANKTON, CODOMINANT GENERA, OCTOBER 1974 TO SEPTEMBER 1975

Date	Total Cells	Organism	Percent	Organism	Percent	Organism	Percent
Oct. 18, 1974	770	Oscillatoria	43	Melosira	29	Cyclotella	26
Nov. 21	370	Melosira	62				
Dec. 19	290	Cyclotella	74				
Jan. 20, 1975	210	Melosira	76				
Feb. 13	710	Melosira	75				
Mar. 13	790	Cyclotella	33	Melosira	27		
Apr. 17	1,200	Melosira	76	Cyclotella	19		
May 13	310	Navicula	24	Cyclotella	18		
June 4	1,600	Fragilaria	78				
Aug. 29	160	Achnanthes	80	Nitzschia	20		
Sept. 24	110	Cyclotella	23	Nitzschia	31	Navicula	23

PERIPHYTON, DECEMBER 1974 TO AUGUST 1975

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
Dec. 19, 1974	28	19	19	0.1	0.0	0.0	Polyethylene strip
May 13, 1975	26	72	69	1.6	0.3	1,500	Polyethylene strip
Aug. 29	37	3.1	2.5	0.4	0.7	1,300	Polyethylene strip

06934500 MISSOURI RIVER AT HERMANN, MO.
(National Stream Quality Accounting Network Station)

LOCATION.--Lat 38°42'36", long 91°26'21", Gasconade County, at gaging station at bridge on State Highway 19 at Hermann and at mile 97.9 (157.5 km).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.											
10...	1130	47000	--	--	--	--	--	--	--	208	0
24...	1200	49300	--	--	--	--	--	--	--	206	0
NOV.											
07...	1200	161000	7.0	50	0	38	10	19	4.0	136	0
22...	1115	64100	--	--	--	--	--	--	--	136	0
DEC.											
04...	1200	51400	--	--	--	--	--	--	--	176	0
19...	1300	59300	--	--	--	--	--	--	--	180	0
JAN.											
02...	1100	60000	--	--	--	--	--	--	--	176	0
13...	1200	69900	--	--	--	--	--	--	--	158	0
31...	1015	121000	--	--	--	--	--	--	--	168	0
FEB.											
12...	1030	75800	8.1	20	0	48	15	18	3.8	176	0
26...	1000	130000	--	--	--	--	--	--	--	116	0
MAR.											
11...	1050	87700	--	--	--	--	--	--	--	172	0
28...	1130	115000	--	--	--	--	--	--	--	152	0
APR.											
10...	1150	85600	--	--	--	--	--	--	--	172	0
25...	1040	256000	--	--	--	--	--	--	--	132	0
MAY											
05...	1130	92600	9.3	120	5	50	15	25	4.6	174	0
27...	1000	58300	--	--	--	--	--	--	--	146	0
JUNE											
03...	1130	115000	--	--	--	--	--	--	--	168	0
17...	1015	111000	--	--	--	--	--	--	--	174	0
JULY											
21...	1200	70600	--	--	--	--	--	--	--	196	0
AUG.											
21...	1050	72700	7.7	30	0	61	22	68	6.3	214	0
SEP.											
29...	1100	80600	--	--	--	--	--	--	--	196	0

06934500 MISSOURI RIVER AT HERMANN, MO.--Continued

DRAINAGE AREA.--528,200 mi² (1,368,000 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1975.
Water temperatures: October 1974 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.										
10...	--	--	--	--	--	.21	--	--	--	171
24...	--	--	--	--	--	--	--	--	--	167
NOV.										
07...	49	11	.3	--	--	.35	218	140	25	112
22...	--	--	--	--	--	--	--	--	--	112
DEC.										
04...	--	--	--	--	--	.15	--	--	--	144
19...	--	--	--	--	--	--	--	--	--	148
JAN.										
02...	--	--	--	--	--	--	--	--	--	144
13...	--	--	--	--	--	.20	--	--	--	130
31...	--	--	--	--	--	--	--	--	--	121
FEB.										
12...	58	12	.2	--	--	.10	266	180	37	144
26...	--	--	--	--	--	--	--	--	--	95
MAR.										
11...	--	--	--	--	--	.17	--	--	--	141
24...	--	--	--	--	--	--	--	--	--	125
APR.										
10...	--	--	--	--	--	.26	--	--	--	141
25...	--	--	--	--	--	--	--	--	--	108
MAY										
05...	78	14	.3	--	--	1.1	304	190	44	143
27...	--	--	--	--	--	--	--	--	--	115
JUNE										
03...	--	--	--	--	--	.47	--	--	--	138
17...	--	--	--	--	--	--	--	--	--	143
JULY										
21...	170	25	--	.00	.47	.26	483	--	--	159
AUG.										
21...	200	19	.5	.00	.47	.26	477	240	67	176
SEP.										
29...	170	14	--	.03	.42	.18	453	--	--	161

06934500 MISSOURI RIVER AT HERMANN, MO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	SUSPENDED SEDIMENT (MG/L)	TEMPERATURE (DEG C)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT.										
10...	750	8.3	852	14.0	--	--	9.6	97	900	150
24...	730	8.2	--	14.5	--	--	9.0	87	1100	--
NOV.										
07...	345	7.9	1310	12.0	--	9.6	9.5	79	5600	9600
22...	600	8.2	--	9.0	--	--	9.8	86	860	--
DEC.										
04...	660	8.1	87	3.0	--	--	11.8	81	1300	50
19...	530	8.1	--	2.5	--	--	10.5	77	60	--
JAN.										
02...	500	8.0	--	1.0	--	--	10.6	74	1650	--
13...	665	8.1	1970	3.0	--	--	9.3	61	1300	2200
31...	645	7.7	--	4.0	--	--	8.7	66	2700	--
FEB.										
12...	660	8.0	66	.0	--	4.0	10.4	71	500	6700
26...	263	7.8	--	2.5	--	--	10.8	79	1250	--
MAR.										
11...	665	8.3	294	3.0	--	--	11.2	83	690	360
28...	410	7.8	--	7.0	--	--	10.6	86	2400	--
APR.										
10...	530	8.0	294	8.5	--	--	9.4	84	850	520
25...	350	7.9	--	15.0	--	--	7.7	76	26000	--
MAY										
05...	500	7.8	2070	16.5	--	50	7.2	73	3800	4000
27...	645	8.0	--	23.5	--	--	7.4	86	650	--
JUNE										
03...	500	7.7	2600	21.0	--	--	5.0	56	6000	3400
17...	505	7.9	--	22.0	--	--	6.7	76	16000	--
JULY										
21...	770	8.3	322	27.0	15	--	6.3	79	1600	100
AUG.										
21...	760	8.2	316	27.5	9	5.3	6.6	82	6300	480
SEP.										
29...	690	8.1	366	16.5	15	--	8.6	86	2000	260

06934500 MISSOURI RIVER AT HERMANN, MO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
NOV.											
07...	1200	<1	0	1	3	1	.0	0	50	2	10
FEB.											
12...	1030	[illegible]	0	0	5	4	.0	0	7	0	10
MAY											
05...	1130	[illegible]	0	2	3	1	.0	1	4	2	10
AUG.											
21...	1050	1	0	0	6	5	.0	2	10	1	10

DATE	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)
NOV.										
07...	[illegible]	<50	10	[illegible]	<100	550	.0	0	610	6
FEB.										
12...	[illegible]	<50	110	1100	<100	70	.0	0	30	1
MAY										
05...	50	50	90	56000	<100	2300	.1	3	220	51
AUG.										
21...	10	<50	10	7100	<100	170	.0	2	50	3

06934500 MISSOURI RIVER AT HERMANN, MO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	635	---	---	675	680	620	720	575
2	---	---	---	500	---	---	---	560	490	475	670	645
3	---	---	---	---	630	---	420	570	465	440	790	570
4	---	---	460	---	---	420	455	520	435	446	750	575
5	---	---	---	---	340	430	450	515	440	520	755	580
6	---	---	---	---	302	470	460	480	435	565	775	595
7	---	365	---	---	---	477	465	295	440	590	790	630
8	---	---	---	---	---	425	530	240	545	610	760	690
9	---	---	---	---	---	450	580	360	570	550	775	660
10	750	---	---	---	---	495	595	410	583	570	775	625
11	---	---	---	---	---	505	625	410	589	605	775	635
12	---	---	---	---	450	410	645	455	620	630	770	650
13	---	---	---	465	---	340	625	490	610	650	780	540
14	---	---	---	---	---	365	655	495	493	640	720	535
15	---	---	---	---	---	327	660	520	430	649	750	470
16	---	---	---	---	---	360	660	560	440	675	760	525
17	---	---	---	---	---	470	650	565	486	680	775	525
18	---	---	---	---	---	440	655	570	465	683	750	570
19	---	---	530	---	---	442	660	600	425	700	755	600
20	---	---	---	---	---	430	650	620	440	710	755	575
21	---	---	---	---	---	430	590	570	390	710	770	580
22	---	600	---	---	---	450	590	580	435	720	710	580
23	---	---	---	550	---	456	575	580	447	750	700	650
24	730	---	---	625	---	456	560	525	470	675	710	655
25	---	---	---	610	---	460	342	590	482	650	450	650
26	---	---	---	---	243	470	350	615	465	640	625	690
27	---	---	---	610	---	480	353	650	461	655	590	660
28	---	---	---	640	---	415	385	640	435	630	510	695
29	---	---	---	595	---	405	405	675	430	775	685	690
30	---	---	---	---	---	383	425	650	421	750	505	---
31	---	---	---	440	---	---	---	615	---	700	520	---
MONTH	---	---	---	---	---	440	514	530	481	631	706	604

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	17.0	22.0	27.0	28.0	25.0
2	17.0	---	---	3.0	---	---	---	17.0	21.0	27.0	28.0	26.0
3	---	---	---	---	3.5	---	7.0	17.5	21.0	27.0	28.0	26.0
4	---	---	3.0	---	---	4.0	7.0	17.5	22.0	28.0	27.0	27.0
5	---	13.5	---	---	4.0	5.0	7.0	17.0	22.0	27.0	27.0	27.0
6	---	---	---	---	3.0	5.0	7.0	17.0	23.0	28.0	27.0	25.0
7	---	12.0	---	---	---	5.0	7.0	16.0	23.0	28.0	27.0	25.0
8	---	---	---	---	---	5.0	8.0	17.0	23.0	28.0	26.0	26.0
9	---	---	---	3.5	---	5.0	9.0	19.0	23.0	28.0	26.0	25.0
10	16.0	---	---	---	---	3.0	9.0	19.0	23.0	27.0	27.0	25.0
11	---	13.0	---	---	---	4.0	9.0	19.0	23.0	28.0	27.0	25.0
12	---	---	4.0	---	0.0	3.0	9.0	19.0	23.0	27.0	27.0	22.0
13	---	---	---	3.0	---	3.0	9.0	20.0	23.0	26.0	27.0	22.0
14	---	---	---	---	---	4.0	9.0	20.0	23.0	26.0	26.0	20.0
15	---	---	---	---	---	4.0	10.0	20.0	22.0	26.0	26.0	22.0
16	15.0	---	---	---	---	4.0	10.0	20.0	23.0	26.0	26.0	22.0
17	---	---	---	---	---	5.0	11.0	20.0	22.0	27.0	27.0	20.0
18	---	---	---	---	---	6.0	12.0	20.0	23.0	27.0	27.0	22.0
19	---	---	2.5	---	2.0	6.0	13.0	22.0	24.0	27.0	27.0	20.0
20	---	9.0	---	---	---	7.0	13.0	23.0	24.0	27.0	27.0	20.0
21	---	---	---	---	---	8.0	14.0	23.0	24.0	27.0	28.0	20.0
22	---	9.0	---	1.0	---	10.0	14.0	24.0	24.0	28.0	27.0	19.0
23	---	---	---	1.5	---	9.0	15.0	24.0	24.0	27.0	27.0	18.0
24	14.5	---	2.5	2.5	---	9.0	15.0	23.0	25.0	27.0	28.0	19.0
25	---	---	---	3.5	---	7.0	16.0	23.0	25.0	27.0	27.0	18.0
26	---	---	---	---	2.5	7.0	16.0	24.0	25.0	27.0	26.0	18.0
27	---	8.0	---	4.0	2.5	7.0	17.0	24.0	25.0	27.0	26.0	18.0
28	---	---	---	3.5	---	7.0	17.0	23.0	25.0	27.0	25.0	18.0
29	---	---	---	3.5	---	7.0	17.0	23.0	25.0	28.0	25.0	18.0
30	---	---	---	---	---	7.0	17.0	23.0	26.0	28.0	25.0	---
31	24.5	---	---	4.0	---	---	---	23.0	---	28.0	25.0	---
MONTH	---	---	---	---	---	6.0	11.5	20.5	23.5	27.0	26.5	22.0

06934500 MISSOURI RIVER AT HERMANN, MO.--Continued

PHYTOPLANKTON, CODOMINANT GENERA, OCTOBER 1974 TO SEPTEMBER 1975

Date	Total Cells	Organism	Percent	Organism	Percent	Organism	Percent
Oct. 10, 1974	32,000	Cyclotella	65				
Nov. 7	2,000	Cyclotella	20	Scenedesmus	20	Navicula	17
Dec. 4	8,300	Lyngbya	48	Cyclotella	32		
Jan. 13 1975	2,400	Asterionella	47	Navicula	24		
Feb. 12	720	Asterionella	46				
Mar. 11	2,200	Asterionella	46				
Apr. 10	3,100	Cyclotella	31	Navicula	29	Asterionella	16
May 5	17,000	Navicula	25	Scenedesmus	25		
July 21	5,000	Scenedesmus	30	Cyclotella	30	Melosira	22
Aug. 21	28,000	Agmenellum	46				
Sept. 29	15,000	Pediastrum	29	Selenastrum	21	Cyclotella	21

PERIPHYTON, OCTOBER 1974 TO AUGUST 1975

Date	Length of exposure (days)	Biomass (g/m^2) Dry weight	Biomass (g/m^2) Ash weight	Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
Oct. 24 1974	42	4.6	3.1	4.5	2.1	330	Polyethylene strip
Apr. 10, 1975	30	0.4	0.4	0.1	0.0	0.0	Polyethylene strip
June 3	29	23	14	72	17	130	Polyethylene strip
Aug. 21	31	22	19	75	12	41	Polyehtylene strip

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO.

LOCATION.--Lat 38°37'03", long 90°10'58", at Poplar Street Bridge, 0.9 mi (1.4 km) downstream from gaging station, 15.9 mi (25.6 km) downstream from Missouri River, 18.3 mi (29.4 km) upstream from Meramec River, and 179.1 mi (288.2 km) upstream from Ohio River.

DRAINAGE AREA.--701,000 mi² (1,816,000 km²), approximately, at gaging station.

PERIOD OF RECORD.--Water temperatures: October 1951 to September 1975.
Sediment records: April 1948 to September 1975.

EXTREMES, 1974-75.--Sediment concentrations: Maximum daily, 1,700 mg/l June 20; minimum daily, 82 mg/l Aug. 19. Sediment discharge: Maximum daily, 1,750,000 tons (1,590,000 tonnes) Apr. 22; minimum daily 25,100 tons (22,800 tonnes) Aug. 20.

EXTREMES, 1948-75.--Water temperatures (1951-75): Maximum, 32°C Aug. 2, 1955; minimum, freezing point many days during winter months.

Sediment concentrations: Maximum daily, 6,420 mg/l June 7, 1951; minimum daily, 19 mg/l Jan. 21, 22, 1967.

Sediment discharge: Maximum daily, 7,010,000 tons (6,359,000 tonnes) May 5, 1951; minimum daily, 2,800 tons (2,540 tonnes) Jan. 21, 1967.

REMARKS.--Sediment discharge for many days computed from turbidity readings.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.5	---	---	---	---	---	---	---	---	29.0	---	---
2	---	---	---	3.0	---	---	6.0	---	---	---	---	---
3	---	---	---	---	3.5	---	---	---	---	---	---	28.0
4	---	---	4.0	---	---	---	---	---	---	---	29.0	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	3.0	---	---	---	---	---	---	---	---
7	16.0	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	26.0
9	---	---	---	---	---	---	8.0	---	---	28.5	---	---
10	---	---	3.5	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	3.0	---	---	22.0	---	29.5	---
12	---	11.0	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	18.0	---	---	---	---
14	---	---	---	---	---	---	---	---	---	26.0	---	---
15	15.5	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	19.0	---	24.9	---	---	21.5
17	---	---	3.5	---	---	5.0	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	10.0	---	---	---	---	---	---	---	---	29.0	---
21	---	---	---	1.5	---	---	14.0	22.0	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	19.5
23	---	---	4.5	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	9.5	---	---	27.0	---	---	---
25	---	8.0	---	---	1.5	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	2.0	2.0	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	19.0	23.0	---	---	---	---
30	---	---	---	---	---	---	---	---	---	29.5	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

MISSISSIPPI RIVER MAIN STEM

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO.--Continued

PARTICLE SIZE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TEMPER-ATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
NOV.							
20...	10.0	143000	134	53300	1	2	26
JAN.							
21...	1.5	123000	330	110000	0	1	61
APR.							
09...	8.0	270000	434	316000	0	0	35
AUG.							
26...	29.0	113000	277	84500	0	1	4

DATE	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
NOV.							
20...	69	85	93	96	97	98	100
JAN.							
21...	88	96	99	99	100	100	--
APR.							
09...	88	93	95	96	96	100	--
AUG.							
26...	60	66	80	90	96	100	100

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	89600	214	51800	96400	132	34400	116000	147	46000
2	93200	195	49100	112000	130	39300	114000	155	47700
3	93900	175	44400	131000	141	49900	111000	159	47700
4	91800	178	44100	182000	165	81100	103000	183	50900
5	89600	175	42300	225000	1010	614000	99100	150	40100
6	86000	195	45300	251000	1360	922000	92600	153	38300
7	84700	173	39600	236000	1090	695000	94600	168	42900
8	88100	180	42800	224000	629	380000	115000	178	55300
9	95200	181	46500	211000	557	317000	142000	179	69600
10	90500	157	38400	200000	439	237000	142000	352	135000
11	88100	180	42800	207000	331	185000	130000	362	127000
12	95700	177	45700	213000	284	163000	130000	289	101000
13	92300	198	49300	208000	268	151000	123000	245	81400
14	97000	191	50000	206000	212	118000	126000	226	76900
15	98100	199	52700	201000	210	114000	138000	215	80100
16	102000	242	66600	191000	191	98500	145000	204	79900
17	112000	198	59900	175000	152	71800	140000	193	73000
18	106000	314	89900	163000	158	69500	141000	192	73100
19	104000	410	115000	148000	142	56700	144000	211	82000
20	101000	315	85900	143000	138	53300	136000	198	72700
21	94500	197	50300	137000	154	57000	128000	203	70200
22	91100	169	41600	133000	144	51700	121000	206	67300
23	86100	188	43700	131000	167	59100	121000	226	73800
24	82800	174	38900	133000	184	66100	118000	215	68500
25	89000	198	47600	126000	158	53800	111000	226	67700
26	90800	167	40900	115000	162	50300	109000	253	74500
27	89000	194	46600	118000	153	48700	108000	246	71700
28	86900	188	44100	119000	163	52400	104000	247	69400
29	83400	149	33600	118000	166	52900	108000	265	77300
30	87000	118	27700	118000	162	51600	114000	268	82500
31	85600	132	30500	---	---	---	113000	247	75400
MONTH	2865000	---	1547600	4971400	---	4994100	3737300	---	2217900

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	424000	856	980000	383000	664	687000	255000	636	438000
2	408000	936	1030000	358000	534	516000	283000	807	617000
3	384000	856	888000	355000	422	404000	288000	890	692000
4	359000	815	790000	352000	359	341000	272000	1270	933000
5	342000	790	729000	342000	338	312000	257000	1300	902000
6	329000	773	687000	335000	585	529000	257000	1080	749000
7	312000	743	626000	342000	710	656000	249000	983	661000
8	291000	468	368000	396000	748	800000	236000	708	451000
9	270000	434	316000	426000	816	939000	227000	610	374000
10	259000	422	295000	428000	688	795000	214000	364	210000
11	257000	432	300000	431000	500	582000	204000	411	226000
12	253000	426	291000	428000	506	585000	203000	450	247000
13	253000	372	254000	421000	464	527000	214000	316	183000
14	257000	339	235000	408000	400	441000	236000	299	191000
15	258000	335	233000	397000	343	368000	256000	422	292000
16	256000	344	238000	387000	349	365000	252000	966	657000
17	256000	374	259000	376000	336	341000	243000	1080	709000
18	257000	297	206000	365000	268	264000	252000	844	574000
19	262000	330	233000	354000	281	269000	270000	940	685000
20	271000	335	245000	343000	280	259000	274000	1700	1260000
21	279000	710	535000	333000	237	213000	275000	1020	757000
22	289000	802	626000	328000	212	188000	276000	804	599000
23	289000	1080	843000	320000	262	226000	281000	471	357000
24	329000	1150	1020000	312000	245	206000	282000	626	477000
25	398000	984	1060000	306000	238	197000	282000	1080	822000
26	459000	1330	1650000	290000	262	205000	290000	1270	994000
27	480000	1350	1750000	274000	250	185000	298000	1270	1020000
28	477000	1170	1510000	267000	241	174000	315000	1210	1030000
29	452000	1090	1330000	260000	524	368000	326000	958	843000
30	418000	827	933000	247000	479	319000	325000	966	848000
31	---	---	---	243000	620	407000	---	---	---
MONTH	9828000	---	20460000	10807000	---	12668000	7892000	---	18798000

07010000 MISSISSIPPI RIVER AT ST. LOUIS, MO.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	116000	265	83000	246000	477	317000	248000	696	466000
2	130000	258	94100	258000	671	467000	241000	493	321000
3	141000	218	83000	227000	653	400000	238000	351	226000
4	130000	213	74400	212000	454	260000	238000	316	203000
5	128000	305	105000	203000	424	232000	225000	312	190000
6	124000	248	83000	196000	338	179000	215000	302	175000
7	114000	199	62300	186000	295	148000	217000	249	146000
8	122000	160	52700	180000	251	122000	234000	253	160000
9	115000	158	49100	169000	241	110000	240000	358	232000
10	136000	286	105000	160000	208	89900	230000	408	253000
11	177000	732	350000	158000	195	83200	208000	374	210000
12	176000	956	454000	158000	226	96400	210000	337	191000
13	162000	709	310000	152000	246	101000	214000	360	208000
14	149000	397	160000	151000	228	93000	214000	366	211000
15	145000	327	128000	146000	280	110000	207000	341	191000
16	138000	348	130000	135000	226	82400	198000	322	172000
17	132000	338	120000	145000	269	105000	190000	320	164000
18	133000	393	141000	177000	338	162000	204000	299	165000
19	137000	343	127000	199000	385	207000	231000	328	205000
20	129000	310	108000	205000	582	322000	251000	341	231000
21	123000	330	110000	202000	735	401000	257000	486	337000
22	124000	281	94100	217000	691	405000	279000	400	301000
23	127000	260	89200	291000	681	535000	294000	710	564000
24	134000	263	95200	339000	1200	1100000	309000	837	698000
25	147000	268	106000	321000	1120	971000	310000	976	817000
26	156000	287	121000	288000	1200	933000	307000	939	778000
27	158000	294	125000	268000	1220	883000	308000	905	753000
28	158000	287	122000	259000	772	540000	326000	985	867000
29	150000	298	121000	---	---	---	369000	991	987000
30	148000	314	125000	---	---	---	408000	1000	1100000
31	183000	384	190000	---	---	---	425000	921	1060000
MONTH	4344000	---	4118500	5848000	---	9454900	8045000	---	12582000

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	311000	1130	949000	136000	104	38200	192000	147	76200
2	292000	1100	867000	136000	106	38900	184000	122	60600
3	274000	892	660000	121000	128	41800	172000	155	72000
4	263000	785	557000	113000	227	69300	164000	114	50500
5	255000	643	443000	109000	293	86200	161000	87	37800
6	262000	560	396000	112000	232	70200	159000	106	45500
7	254000	479	328000	124000	207	69300	157000	158	67000
8	243000	435	285000	124000	150	50200	154000	141	58600
9	239000	400	258000	120000	145	47000	151000	103	42000
10	246000	334	222000	105000	113	32000	139000	92	34500
11	243000	303	199000	92100	125	31100	130000	251	88100
12	237000	265	170000	98200	131	34700	124000	265	88700
13	231000	238	148000	102000	126	34700	140000	163	61600
14	230000	219	136000	106000	95	27200	171000	151	69700
15	226000	216	132000	120000	97	31400	162000	186	81400
16	221000	223	133000	126000	84	28600	149000	451	181000
17	213000	181	104000	118000	174	55400	150000	424	172000
18	206000	263	146000	114000	295	90800	146000	332	131000
19	197000	262	139000	121000	82	26800	154000	162	67400
20	192000	260	135000	112000	83	25100	191000	153	78900
21	188000	225	114000	114000	132	40600	182000	302	148000
22	175000	188	88800	108000	160	46700	162000	254	111000
23	164000	194	85900	119000	120	38600	149000	187	75200
24	165000	212	94400	122000	87	28700	137000	127	47000
25	166000	143	64100	114000	118	37000	135000	134	48800
26	165000	134	59700	158000	103	43900	127000	110	37700
27	152000	119	48800	170000	216	99100	121000	110	35900
28	149000	141	56700	173000	221	103000	120000	112	36300
29	133000	138	49600	191000	379	195000	124000	115	38500
30	128000	112	38700	198000	208	111000	123000	124	41200
31	136000	133	48800	201000	258	140000	---	---	---
MONTH	6556000	---	7156500	3979300	---	1812500	4530000	---	2184100

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)	73403000
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)	93499410

07014500 MERAMEC RIVER NEAR SULLIVAN, MO.

LOCATION.--Lat 38°09'30", long 91°06'30", SE¼NE¼ sec.35, T.40 N., R.2 W., Franklin County, at gaging station on right bank at Sappington Bridge, 3.8 mi (6.1 km) downstream from Brazil Creek, 4 mi (6.4 km) southeast of Sullivan, and at mile 113.2 (182.1 km).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
03...	0910	660	6.7	80	30	41	24	4.7	1.4	220	0	12
NOV.												
06...	1030	2250	7.9	30	0	35	18	5.5	1.7	192	0	12
DEC.												
05...	0920	511	6.5	20	20	37	22	2.7	1.0	205	2	9.6
JAN.												
07...	1500	836	6.7	10	0	37	22	2.9	1.1	200	4	11
FEB.												
10...	1450	1590	7.8	40	10	25	16	2.6	1.1	146	0	11
MAR.												
12...	1440	5080	5.3	60	0	18	11	1.5	1.3	100	0	10
APR.												
08...	1415	1580	6.1	20	0	28	16	2.2	1.2	152	0	10
MAY												
06...	1445	2750	6.6	30	20	26	15	2.1	1.2	152	0	8.9
JUNE												
05...	1330	613	5.7	30	0	34	18	2.5	1.2	194	0	7.5
JULY												
14...	1350	387	7.7	30	20	37	20	2.7	1.1	216	0	7.4

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
03...	200	21	180	370	8.2	3	12.0	10	9.1	84	28	26
NOV.												
06...	160	4	157	330	8.1	5	11.0	10	8.8	80	1500	3400
DEC.												
05...	180	11	171	345	8.4	2	3.0	2	11.9	88	7	14
JAN.												
07...	180	12	171	350	8.5	3	5.0	5	11.1	87	2	2
FEB.												
10...	130	9	120	262	8.1	3	2.5	9	11.2	82	2	10
MAR.												
12...	90	8	82	188	7.8	40	4.0	11	11.3	86	420	2700
APR.												
08...	140	11	125	265	8.2	2	11.0	2	10.8	98	16	10
MAY												
06...	130	5	125	255	8.0	4	17.0	7	8.9	92	500	460
JUNE												
05...	160	0	159	337	7.9	1	22.0	3	8.7	99	20	41
JULY												
14...	170	0	177	358	8.2	5	22.0	1	8.4	95	11	39

07014500 MERAMEC RIVER NEAR SULLIVAN, MO.--Continued

DRAINAGE AREA.--1,475 mi² (3,820 km²).

PERIOD OF RECORD.--Chemical analyses: August 1963 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.												
03...	5.6	.1	.00	.03	.23	.01	.01	197	.27	351	.1	5
NOV.												
06...	7.7	.0	.23	.04	.38	.05	.06	188	.26	1140	.2	7
DEC.												
05...	3.2	.0	.16	.03	.02	.03	.00	184	.25	254	.1	3
JAN.												
07...	3.9	.0	.19	.01	.26	.00	.00	182	.25	411	.1	3
FEB.												
10...	2.4	.1	.50	.01	.13	.02	.03	152	.21	648	.1	4
MAR.												
12...	1.7	.1	.23	.00	.39	.02	.07	112	.15	1780	.1	3
APR.												
08...	2.5	.2	.27	.01	.06	.01	.02	134	.18	572	.1	3
MAY												
06...	2.2	.0	.22	.01	.16	.00	.04	142	.19	1050	.1	3
JUNE												
05...	3.0	.0	.17	.02	.30	.00	.01	177	.24	293	.1	3
JULY												
14...	3.2	.1	.10	.08	.05	.01	.01	188	.26	196	.1	3

07016400 BOURBEUSE RIVER ABOVE UNION, MO.

LOCATION.--Lat 38°25'55", long 91°01'11", Franklin County, at bridge on county road, 5 mi (8.0 km) upstream from gaging station, and 0.5 mi (0.8 km) south of Union.

DRAINAGE AREA.--808 mi² (2,092 km²), including Flat Creek (at gaging station).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
02...	1530	108	5.5	60	50	29	19	3.9	2.0	146	0	17
NOV.												
06...	0830	1340	6.1	40	0	23	12	5.0	2.8	112	0	23
DEC.												
04...	1540	105	7.2	60	70	27	16	5.1	1.5	135	0	24
JAN.												
07...	1350	422	8.3	60	0	16	9.6	3.9	1.8	68	0	24
FEB.												
10...	0940	600	9.1	80	30	17	12	3.9	2.3	75	0	23
MAR.												
12...	1340	4840	4.7	90	10	9.0	4.4	2.7	1.9	36	0	12
APR.												
07...	1200	415	7.8	80	60	21	9.0	3.6	1.3	80	0	21
MAY												
06...	1250	788	7.3	60	20	19	11	3.9	1.5	92	0	20
JUNE												
05...	1230	128	6.8	30	30	25	15	4.0	1.6	142	0	20
JULY												
14...	1200	53	7.2	20	40	27	15	3.8	2.1	148	0	14

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
02...	150	16	135	297	7.8	5	14.5	21	9.1	88	340	130
NOV.												
06...	110	15	92	243	7.8	30	11.0	19	8.3	75	6000	8400
DEC.												
04...	130	23	111	298	7.9	20	2.0	5	9.9	72	4	8
JAN.												
07...	79	24	56	188	7.9	30	3.0	23	10.4	77	70	190
FEB.												
10...	92	30	62	196	7.7	20	.0	16	11.8	81	15	20
MAR.												
12...	41	11	30	97	7.3	40	1.5	51	12.4	89	44000	8600
APR.												
07...	90	24	66	200	7.7	10	10.0	14	10.0	88	22	4
MAY												
06...	93	17	75	204	7.9	8	18.5	10	9.9	106	110	120
JUNE												
05...	120	8	116	265	7.8	3	22.5	10	7.2	82	54	62
JULY												
14...	130	8	121	275	8.1	10	23.5	5	6.8	79	8	190

07016400 BOURBEUSE RIVER ABOVE UNION, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: August 1963 to July 1975 (discontinued).

REMARKS.--Records of discharge are given for gaging station at Union. No appreciable inflow between sampling point and gaging station.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.												
02...	3.4	.1	.09	.05	.37	.02	.05	162	.22	47.2	.1	5
NOV.												
06...	6.4	.1	.08	.05	.60	.05	.12	145	.20	525	.2	9
DEC.												
04...	6.4	.1	.00	.06	.11	.03	.06	152	.21	43.1	.2	8
JAN.												
07...	4.4	.0	.40	.02	.44	.01	.04	113	.15	129	[illegible]	9
FEB.												
10...	4.5	.9	.64	.03	.49	.02	.05	120	.16	196	.2	8
MAR.												
12...	3.2	.1	.29	.08	1.9	.05	.31	74	.10	967	.2	12
APR.												
07...	3.0	.0	.35	.04	.19	.01	.04	113	.15	127	.2	8
MAY												
06...	3.0	.1	.11	.02	.48	.00	.04	117	.16	249	.2	8
JUNE												
05...	4.0	.1	.26	.02	.44	.02	.03	153	.21	52.0	.2	6
JULY												
14...	3.3	.1	.00	.04	.22	.01	.02	150	.20	21.5	.1	6

07018000 BIG RIVER NEAR DE SOTO, MO.

LOCATION.--Lat 38°07'20", long 90°40'30", SW¼NW¼ sec.11, T.39 N., R.3 E., Jefferson County, at gaging station near right bank on downstream side of pier of Mammoth Bridge, 300 ft (91.4 m) upstream from Mammoth Creek, 1.5 mi (2.4 km) downstream from Mineral Fork, 6.5 mi (10.5 km) west of De Soto, and at mile 59.2 (95.3 km).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
02...	1330	290	6.6	20	40	46	28	4.0	1.7	254	0	20
NOV.												
05...	1500	1140	6.8	90	50	40	18	4.8	3.5	192	0	26
DEC.												
04...	1400	217	4.3	20	40	49	29	4.9	1.0	257	0	22
31...	1245	290	3.1	70	20	48	29	4.6	1.3	274	0	21
FEB.												
10...	1300	623	7.5	30	0	41	24	3.7	1.4	220	0	23
MAR.												
12...	0945	7010	4.3	50	0	25	11	1.9	1.7	93	0	14
APR.												
08...	1020	596	5.5	80	20	43	26	3.3	1.1	224	0	21
MAY												
06...	0950	1160	5.1	20	30	42	25	3.2	1.3	232	0	19
JUNE												
18...	1000	201	7.0	120	40	54	31	4.2	1.3	284	0	17
JULY												
18...	1045	110	7.6	0	30	48	31	4.7	1.6	284	0	16

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
02...	230	22	208	420	8.1	5	13.5	11	9.6	91	400	92
NOV.												
05...	170	17	157	358	7.9	20	12.0	19	8.6	80	22000	34000
DEC.												
04...	240	31	211	490	8.3	5	3.0	2	12.0	89	2	6
31...	240	15	225	455	8.3	3	5.0	2	10.6	83	180	220
FEB.												
10...	200	21	180	407	8.1	5	.5	7	11.4	79	2	28
MAR.												
12...	110	31	76	192	7.8	--	2.0	26	12.6	91	2200	3400
APR.												
08...	210	22	184	400	8.2	2	10.0	5	10.2	90	30	16
MAY												
06...	210	18	190	395	8.1	2	17.5	5	8.7	91	80	140
JUNE												
18...	260	30	233	465	8.0	4	23.0	1	7.0	80	104	150
JULY												
18...	250	15	233	485	8.1	6	23.0	2	5.7	66	[illegible]	130

07018000 BIG RIVER NEAR DE SOTO, MO.--Continued

DRAINAGE AREA.--718 mi² (1,860 km²), including Mammoth Creek.

PERIOD OF RECORD.--Chemical analyses: August 1963 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.												
02...	4.1	.1	.00	.06	.39	.02	.04	228	.31	179	.1	4
NOV.												
05...	5.9	.1	.66	.12	.71	.06	.20	210	.29	646	.2	6
DEC.												
04...	4.6	.1	.00	.03	.04	.02	.04	241	.33	141	.1	4
31...	4.4	.1	.16	.02	.29	.01	.02	252	.34	197	.1	4
FEB.												
10...	4.1	.0	.00	.04	.31	.02	.04	219	.30	368	.1	4
MAR.												
12...	2.3	.4	.00	.02	.69	.06	.11	115	.16	2180	.1	4
APR.												
09...	2.5	.1	.33	.00	.16	.01	.02	213	.29	343	.1	3
MAY												
06...	3.0	.1	.13	.00	.18	.00	.01	212	.29	666	.1	3
JUNE												
18...	4.9	.1	.15	.00	.34	.03	.03	249	.34	135	.1	3
JULY												
18...	5.2	.1	.07	.03	.13	.00	.02	250	.34	74.2	.1	4

07019280 MERAMEC RIVER AT PAULINA HILLS, MO.

LOCATION.--Lat 38°27'46", long 90°24'53", Jefferson County, at bridge on State Highway 21 at Paulina Hills, 0.3 mi (0.5 km) downstream from Saline Creek, and 10 mi (16 km) upstream from mouth.

DRAINAGE AREA.--3,950 mi² (10,230 km²), approximately.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
02...	1220	1600	5.3	30	50	41	24	7.3	2.1	220	0	20
NOV.												
05...	1350	1380	5.0	20	40	44	21	8.6	2.3	234	0	20
DEC.												
04...	1200	972	5.0	20	60	40	21	7.8	1.4	207	0	18
JAN.												
07...	1040	2560	6.0	30	0	34	19	6.3	1.9	168	0	22
FEB.												
10...	1120	3890	8.7	50	30	31	15	5.4	1.5	140	0	21
MAR.												
12...	1120	14400	6.7	40	60	29	13	13	1.4	120	0	24
APR.												
08...	1150	3400	7.6	20	60	34	17	5.1	1.5	156	0	18
MAY												
06...	1110	3870	7.7	40	60	29	15	4.2	1.5	150	0	16
JUNE												
05...	1015	1350	5.4	30	110	43	19	7.5	1.7	200	0	20
JULY												
14...	1030	682	8.5	10	120	42	22	8.9	1.7	208	0	18

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
02...	200	21	180	395	8.1	3	16.5	5	9.2	94	300	260
NOV.												
05...	200	4	192	395	8.0	5	15.0	26	7.8	77	440	660
DEC.												
04...	190	17	170	395	8.3	5	4.0	2	10.0	76	30	20
JAN.												
07...	160	25	138	355	8.1	20	2.5	11	10.5	77	130	220
FEB.												
10...	140	24	115	304	7.6	10	1.0	5	11.2	79	70	95
MAR.												
12...	130	28	98	320	7.8	40	3.0	17	11.0	81	2200	3500
APR.												
08...	160	27	128	312	8.0	3	10.5	7	10.6	95	80	100
MAY												
06...	130	11	123	287	7.9	15	18.0	8	8.7	91	140	48
JUNE												
05...	190	22	164	378	7.8	3	22.0	8	7.0	80	74	105
JULY												
14...	200	25	171	410	7.8	10	25.5	5	6.3	77	16	68

07019280 MERAMEC RIVER AT PAULINA HILLS, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: August 1965 to July 1975 (discontinued).

REMARKS.--Records of discharge are given for gaging station near Eureka, Mo.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.												
02...	8.8	.1	.00	.12	.36	.10	.17	210	.29	907	.2	7
NOV.												
05...	11	.1	.10	.26	.33	.20	.20	220	.31	853	.3	9
DEC.												
04...	11	.1	.21	.08	.17	.10	.14	192	.26	504	.2	8
JAN.												
07...	9.1	.1	.39	.08	.49	.04	.05	192	.26	1330	.2	8
FEB.												
10...	7.3	.1	.73	.06	.32	.04	.07	169	.23	1780	.2	8
MAR.												
12...	20	.2	.25	.24	.51	.12	.29	175	.24	6800	.5	10
APR.												
08...	6.6	.2	.50	.02	.14	.02	.06	164	.22	1540	.2	7
MAY												
06...	4.9	.1	.34	.01	.09	.02	.07	162	.22	1690	.2	6
JUNE												
05...	9.6	.1	.20	.02	.50	.04	.08	214	.29	780	.2	8
JULY												
14...	11	.1	.08	.03	.32	.06	.10	231	.31	425	.3	9

07021800 HEADWATER DIVERSION CHANNEL NEAR ALLENVILLE, MO.

LOCATION.--Lat 37°12'55", long 89°46'00", Cape Girardeau County, at bridge on county road at Allenville.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
23...	0900	160	8.0	200	270	33	15	3.2	1.5	166	0	10
NOV.												
26...	1300	270	7.9	60	70	21	9.8	2.2	1.0	100	0	7.9
DEC.												
31...	0900	440	6.0	70	60	20	9.6	3.1	1.3	96	0	11
JAN.												
28...	1230	235	7.4	60	140	24	12	2.5	.9	126	0	8.0
FEB.												
19...	0900	230	6.5	100	110	25	12	3.3	1.1	118	0	10
MAR.												
18...	1300	4000	7.3	60	30	12	6.2	1.0	1.1	56	0	8.6
APR.												
16...	0920	300	5.6	80	140	22	12	3.1	1.2	128	0	7.7
MAY												
21...	1300	623	7.0	110	140	23	11	2.4	1.2	116	0	7.1
JUNE												
19...	0930	690	7.3	220	50	25	9.7	3.5	2.7	128	0	7.7
JULY												
17...	1345	500	9.0	20	260	27	14	2.9	1.5	152	0	6.9

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
23...	140	10	135	292	7.9	0	12.0	7	8.8	81	--	72
NOV.												
26...	93	11	82	196	7.7	20	8.5	17	10.3	88	2120	3200
DEC.												
31...	89	10	79	192	7.8	20	7.0	5	10.4	86	650	1120
JAN.												
28...	110	6	103	237	7.7	5	6.0	6	10.6	85	70	46
FEB.												
19...	110	15	97	223	7.8	70	5.5	5	9.7	77	84	20
MAR.												
18...	56	10	46	120	7.5	20	6.0	7	10.5	85	150	260
APR.												
16...	100	0	105	232	7.9	4	11.5	6	8.8	81	98	72
MAY												
21...	100	0	95	210	7.6	3	22.5	3	7.0	80	140	56
JUNE												
19...	100	0	105	214	7.6	190	24.0	17	5.8	68	1900	1800
JULY												
17...	130	0	125	295	7.8	12	24.0	4	6.4	75	100	50

07021800 HEADWATER DIVERSION CHANNEL NEAR ALLENVILLE, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: July 1969 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.												
23...	2.9	.0	.00	.00	.24	.02	.03	163	.22	70.5	.1	5
NOV.												
26...	3.2	.0	.29	.04	.15	.02	.08	100	.14	72.9	.1	5
DEC.												
31...	1.8	.0	.27	.02	.21	.02	.04	113	.15	134	.1	7
JAN.												
29...	2.7	.0	.67	.00	.14	.00	.02	124	.17	78.7	.1	5
FEB.												
19...	2.7	.0	.01	.01	.15	.00	.04	120	.16	74.6	.1	6
MAR.												
18...	1.4	.3	.29	.01	.17	.01	.04	80	.11	444	.1	6
APR.												
16...	1.9	.0	.00	.00	.11	.00	.05	124	.17	100	.1	6
MAY												
21...	2.6	.0	.10	.00	.15	.02	.03	105	.14	177	.1	5
JUNE												
19...	3.2	.1	.42	.04	4.6	.06	.13	133	.18	248	.2	7
JULY												
17...	2.8	.1	.10	.03	.18	.01	.07	140	.19	109	.1	5

07022000 MISSISSIPPI RIVER AT THEBES, ILL.
(National Stream Quality Accounting Network Station)

LOCATION.--Lat 37°13'00", long 89°27'50", in NW¼ sec.17, T.15 S., R. 3 W., Alexander County, at gaging station on downstream side of railroad bridge at Thebes, 5 mi (8.0 km) downstream from Headwater Diversion Channel, and at mile 43.7 (70.3 km) above Ohio River.

DRAINAGE AREA.--717,200 mi² (1,858,000 km²), approximately.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
22...	1400	104000	5.3	1300	0	50	21	36	4.3	196	0	95
NOV.												
26...	1500	140000	6.2	30	17	52	19	30	3.7	196	0	75
DEC.												
30...	1410	115000	7.0	30	30	59	20	30	4.3	216	0	80
JAN.												
28...	1400	170000	8.0	20	0	57	21	24	3.2	210	0	70
FEB.												
18...	1450	142000	8.0	80	20	57	16	21	2.9	208	0	72
MAR.												
19...	0900	206000	8.5	50	10	42	16	17	3.1	182	0	63
APR.												
16...	1110	263000	9.2	40	10	52	18	19	3.0	194	0	60
MAY												
21...	1545	359000	7.8	40	250	44	16	14	3.5	158	0	60
JUNE												
18...	1615	250000	6.0	50	5	52	18	19	3.6	192	0	63
JULY												
17...	1530	231000	10	90	0	55	19	25	4.1	188	0	77
AUG.												
12...	1500	117000	4.1	20	20	57	22	49	5.0	218	0	130
SEP.												
08...	1430	171000	5.2	--	--	52	19	35	4.3	192	0	99

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	SUS-PENDED SEDI-MENT (MG/L)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.											
22...	582	7.9	--	96	14.5	--	9.0	8.1	79	7800	230
NOV.											
26...	555	7.8	10	73	7.5	22	--	10.0	83	5200	350
DEC.											
30...	590	8.1	20	163	3.5	23	--	11.6	87	2600	980
JAN.											
28...	565	8.0	20	270	2.0	27	--	12.2	88	1400	450
FEB.											
18...	570	7.9	--	150	3.0	--	6.5	10.8	80	3000	580
MAR.											
19...	410	7.9	30	340	4.0	12	--	10.6	81	700	450
APR.											
16...	530	8.1	--	371	8.5	19	--	9.0	77	1800	450
MAY											
21...	425	7.8	--	426	21.0	--	7.6	6.6	73	4600	700
JUNE											
18...	490	7.9	330	1170	23.5	48	--	6.5	76	10200	650
JULY											
17...	560	8.1	40	231	26.0	18	--	5.3	65	840	400
AUG.											
12...	650	8.3	--	158	29.0	--	8.2	7.7	100	1700	90
SEP.											
08...	565	7.9	--	176	26.5	--	--	5.6	67	35000	140

07022000 MISSISSIPPI RIVER AT THEBES, ILL.--Continued

PERIOD OF RECORD.--Chemical analyses: January 1973 to September 1975.
Water temperatures: October 1974 to September 1975.

EXTREMES, 1974-75.--Specific conductance: Maximum, 675 micromhos Aug. 6, 8; minimum, 324 micromhos Apr. 1.
Water temperatures: Maximum 30.0°C July 10, 11; minimum, 2.0°C Jan. 22, 23, Feb. 12.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.											
22...	21	.3	--	--	--	--	.19	347	210	51	161
NOV.											
26...	20	.3	1.1	.17	.44	.14	.26	323	210	47	161
DEC.											
30...	25	.3	1.5	.26	1.0	.09	.30	353	230	53	177
JAN.											
28...	23	.2	2.6	.21	1.1	.08	.13	335	230	57	172
FEB.											
18...	21	.2	--	--	--	--	.22	317	210	38	171
MAR.											
19...	18	.2	.01	.02	.96	.07	.24	242	170	46	125
APR.											
16...	20	.3	2.4	.07	.92	.11	.32	301	200	45	159
MAY											
21...	13	.2	--	--	--	--	.23	238	180	46	130
JUNE											
19...	16	.2	2.6	.02	6.1	.11	.51	297	200	46	157
JULY											
17...	19	.4	2.2	.03	.69	.14	.40	328	220	53	142
AUG.											
12...	21	.3	--	--	--	--	.20	397	230	61	172
SEP.											
08...	18	.4	--	--	--	--	.26	336	210	51	157

DATE	TIME	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
OCT.											
22...	1400	--	0	--	--	2	.0	1	10	0	<10
FEB.											
18...	1450	1	10	0	11	3	.0	0	10	0	10
MAY											
21...	1545	0	10	1	6	1	.0	1	50	2	<10
AUG.											
12...	1500	0	0	0	9	3	.0	1	190	2	<10

DATE	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)
OCT.										
22...	0	<50	10	2500	<100	220	.2	1	150	3
FEB.										
18...	20	<50	70	2300	<100	70	.4	0	30	1
MAY										
21...	7	<50	30	4600	<100	260	.1	1	180	3
AUG.										
12...	9	<50	40	2300	<100	190	.1	1	120	3

07022000 MISSISSIPPI RIVER AT THEBES, ILL.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	615	560	610	500	350	324	353	490	430	640	480
2	---	625	570	600	495	373	335	390	500	465	635	465
3	---	615	570	578	405	390	342	390	515	425	645	485
4	---	563	583	560	372	418	378	425	520	430	642	490
5	---	535	580	560	382	415	378	440	475	436	650	510
6	---	507	565	558	405	415	388	455	460	430	675	555
7	---	495	550	530	435	432	400	432	450	440	655	550
8	---	439	570	520	458	450	405	405	400	443	675	530
9	---	415	570	530	470	450	415	405	455	455	655	522
10	---	400	590	508	482	455	440	372	460	465	650	540
11	---	405	570	515	495	420	438	350	480	475	660	580
12	---	413	520	495	502	412	438	350	500	470	655	562
13	---	430	510	475	520	410	470	365	510	477	635	555
14	---	445	505	418	520	410	470	365	520	490	610	540
15	---	458	510	417	520	412	495	370	540	500	600	590
16	---	460	503	430	520	393	500	372	550	510	600	540
17	---	460	500	495	522	390	495	378	500	518	590	520
18	---	447	480	502	540	---	510	382	460	560	575	475
19	---	458	480	535	555	420	510	392	455	560	585	460
20	---	495	507	535	538	440	510	405	460	545	615	480
21	---	515	520	545	500	430	505	410	450	565	600	495
22	580	515	525	545	470	430	495	415	445	575	610	505
23	590	563	540	555	410	445	480	420	440	590	615	455
24	600	560	545	565	385	420	448	430	460	590	620	470
25	605	560	545	575	380	428	430	440	500	593	600	510
26	605	565	560	557	350	420	425	450	475	610	590	510
27	620	---	565	590	341	405	382	455	460	605	590	550
28	600	565	590	600	---	355	340	460	463	600	540	560
29	595	579	580	542	---	344	335	475	468	635	535	565
30	590	585	595	555	---	352	335	475	445	625	525	575
31	620	---	625	585	---	338	---	475	---	610	490	---
MONTH	---	507	548	532	462	407	427	410	478	520	612	521

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	17.5	7.0	5.0	4.0	3.5	6.5	18.0	24.0	28.0	27.5	27.0
2	---	18.5	6.0	4.5	4.0	3.5	7.5	18.0	23.5	28.0	27.5	27.0
3	---	18.5	6.0	4.5	4.0	3.5	6.5	18.0	23.5	28.5	27.5	28.0
4	---	17.0	5.0	4.0	4.5	4.5	7.0	18.0	24.0	29.5	28.0	28.5
5	---	16.0	5.0	4.0	4.5	4.5	7.0	17.5	23.0	29.5	29.0	28.0
6	---	15.5	5.0	4.0	4.0	5.0	7.0	17.5	23.5	29.5	28.0	27.5
7	---	15.0	5.0	4.0	4.0	5.0	7.0	17.0	23.5	29.5	28.5	28.0
8	---	14.5	5.5	4.5	4.0	5.0	7.0	17.5	24.0	29.5	29.5	27.0
9	---	13.5	4.5	4.5	4.0	5.0	8.0	18.0	23.5	29.0	29.5	27.0
10	---	13.5	4.5	5.0	3.0	4.5	8.5	18.0	23.5	30.0	29.0	26.5
11	---	---	4.0	4.0	2.5	4.5	8.5	18.5	24.0	30.0	28.5	25.5
12	---	12.0	4.0	3.5	2.0	4.0	8.5	18.5	24.0	29.5	29.0	24.5
13	---	12.0	4.0	3.5	2.5	4.0	8.5	18.5	24.0	28.5	29.0	23.0
14	---	11.5	4.0	3.5	2.5	4.0	9.0	18.5	24.0	27.5	28.0	23.0
15	---	11.5	4.0	4.0	2.5	4.0	9.5	19.0	24.5	27.0	28.0	22.0
16	---	11.0	4.0	3.5	2.5	4.0	9.0	19.0	25.0	27.0	28.0	22.0
17	---	11.0	4.0	3.0	2.5	4.5	10.5	20.0	25.0	27.0	28.0	22.0
18	---	11.0	4.0	3.0	2.5	---	12.0	20.5	25.0	27.0	28.5	22.0
19	---	11.0	4.0	3.0	3.0	5.0	13.0	21.0	24.5	27.5	29.5	22.0
20	---	11.0	4.5	3.0	4.0	6.0	14.0	22.0	24.5	27.5	29.0	22.0
21	---	10.5	5.0	3.5	4.0	7.0	14.0	22.5	24.5	27.5	29.0	21.5
22	15.0	10.0	5.0	2.0	4.0	8.0	14.0	22.5	25.5	27.5	29.5	21.0
23	15.0	10.0	5.0	2.0	4.5	9.0	15.0	23.0	24.5	28.0	29.5	21.0
24	15.5	10.5	4.5	3.0	4.5	10.0	15.0	23.5	24.5	28.0	29.5	20.0
25	16.0	9.0	4.0	3.5	4.0	10.0	15.0	23.5	24.5	28.0	29.5	19.0
26	16.0	8.5	4.0	4.0	4.5	9.0	15.0	24.5	27.5	28.0	29.5	18.5
27	16.0	---	3.5	3.5	4.5	9.0	15.0	24.5	27.5	28.0	29.0	18.5
28	16.0	8.5	3.0	4.0	---	10.0	16.5	24.0	27.5	28.0	28.5	18.5
29	16.0	8.5	4.0	4.0	---	10.0	16.5	24.0	27.5	28.0	29.0	19.5
30	16.5	8.5	4.0	4.0	---	6.5	17.0	24.0	28.0	28.5	28.0	19.0
31	17.0	---	4.0	4.0	---	5.5	---	24.0	---	29.0	27.0	---
MONTH	---	12.5	4.5	3.5	3.5	6.0	11.0	20.5	24.5	28.5	28.5	23.5

07022000 MISSISSIPPI RIVER AT THEBES, ILL.--Continued

PHYTOPLANKTON, CODOMINANT GENERA, OCTOBER 1974 TO SEPTEMBER 1975

Date	Total Cells	Organism	Percent	Organism	Percent	Organism	Percent
Oct. 22 1974	5,500	Cyclotella	37	Oscillatoria	19	Scenedesmus	16
Nov. 26	4,900	Cyclotella	23	Gomphosphaeria	22		
Dec. 30	13,000	Cyclotella	88				
Jan. 28, 1975	19,000	Cyclotella	84				
Feb. 18	12,000	Cyclotella	85				
Mar. 19	2,500	Cyclotella	82				
Apr. 16	2,800	Cyclotella	75				
June 18	6,400	Melosira	44				
July 17	7,500	Lyngbya	28	Cyclotella	25	Melosira	22
Aug. 12	21,000	Melosira	47	Anacystis	16		
Sept. 8	8,500	Cyclotella	39	Oscillatoria	30	Scenedesmus	16

PERIPHYTON, OCTOBER 1974 TO AUGUST 1975

Date	Length of exposure (days)	Biomass (g/m^2)		Chlorophyll a (mg/m^2)	Chlorophyll b (mg/m^2)	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight				
Oct. 22, 1974	28	190	170	78	16	200	Polyethylene strip
Apr. 16, 1975	28	1.7	1.5	0.1	0.0		Polyethylene strip
June 18	28	58	54	50	3.1	78	Polyethylene strip
Aug. 12	26	100	94	41	3.4	130	Polyethylene strip

07040100 ST. FRANCIS RIVER AT ST. FRANCIS, ARK.

LOCATION.--Lat 36°27'20", long 90°08'13", Clay County, at gaging station at bridge on U.S. Highway 62 at St. Francis.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV.												
26...	1100	3400	6.6	70	100	14	7.4	2.5	2.4	68	0	9.5
JAN.												
28...	1030	2390	7.7	90	50	17	9.4	2.4	1.1	82	0	11
MAR.												
18...	1025	6300	6.0	70	30	12	6.4	2.5	1.6	52	0	10
MAY												
21...	1040	4400	6.3	210	10	13	6.7	2.3	1.5	68	0	7.4
JULY												
17...	1125	510	8.3	40	0	20	11	4.1	2.0	116	0	7.3

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
NOV.												
26...	65	10	56	153	7.2	80	8.0	29	9.4	79	2400	14000
JAN.												
28...	81	14	67	170	7.4	20	5.0	15	10.8	86	25	25
MAR.												
18...	56	14	43	132	7.2	40	5.0	17	11.2	88	120	420
MAY												
21...	60	4	56	138	7.3	5	22.5	13	6.8	77	50	60
JULY												
17...	95	0	95	200	7.9	45	25.0	18	6.1	73	100	300

07040100 ST. FRANCIS RIVER AT ST. FRANCIS, ARK.--Continued

PERIOD OF RECORD.--Chemical analyses: July 1969 to July 1975 (discontinued).

REMARKS.--Discharge obtained from rating curves furnished by Memphis District, Corps of Engineers.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180° C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
NOV. 26...	3.0	.0	.22	.07	.58	.03	.23	89	.12	817	.1	7
JAN. 29...	3.1	.0	.29	.02	.41	.01	.09	86	.12	555	.1	6
MAR. 18...	2.4	.1	.26	.02	.42	.01	.10	81	.11	1380	.1	9
MAY 21...	2.2	.0	.07	.00	.38	.02	.05	72	.10	856	.1	7
JULY 17...	3.6	.1	.01	.00	.62	.01	.15	118	.16	163	.2	8

07050750 JAMES RIVER NEAR NIXA, MO.

LOCATION.--Lat 37°06'13", long 93°15'49", in SE¼NE¼ sec.30, T.28 N., R.21 W., Greene County, temperature recorder at gaging station on left bank, 0.5 mi (0.8 km) downstream from Springfield Utilities Dam, and 4.5 mi (7.2 km) northeast of Nixa.

DRAINAGE AREA.--273 mi² (707 km²).

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL-ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	26.0	21.5	23.5	20.5	11.0	11.0	10.0	8.0	8.0	8.0	11.0	10.5
2	25.5	21.5	20.5	20.0	11.5	10.0	8.0	8.0	9.0	8.0	11.0	10.0
3	26.0	21.0	20.0	16.0	12.0	10.5	8.0	8.0	9.5	8.5	10.5	9.5
4	25.5	21.0	16.0	14.5	12.0	10.0	8.0	7.0	10.0	9.5	10.5	10.0
5	26.0	22.0	14.5	14.0	13.0	10.0	8.0	7.0	10.0	9.5	11.5	10.5
6	23.0	22.0	14.5	14.0	13.5	11.5	8.0	7.0	9.5	8.0	12.0	11.0
7	25.0	22.0	14.0	13.5	12.0	10.5	10.0	8.0	8.5	8.0	12.0	11.5
8	23.0	20.5	14.5	13.5	11.0	9.0	10.0	9.0	9.0	9.0	11.5	11.0
9	26.5	20.0	14.5	14.5	9.0	8.5	11.0	9.5	8.0	6.0	11.5	9.5
10	28.5	19.5	14.5	14.0	9.0	8.0	11.0	9.0	8.0	6.0	9.5	9.0
11	28.0	20.5	14.0	13.5	10.5	9.0	9.0	7.0	8.5	7.0	9.5	8.5
12	24.0	22.0	13.5	13.5	10.5	9.0	8.0	5.5	8.5	8.0	9.0	8.5
13	26.5	23.5	13.5	13.0	10.0	9.0	6.0	5.5	9.5	8.5	8.5	8.0
14	25.0	24.0	13.0	11.5	9.5	9.0	5.5	5.5	10.0	9.5	8.5	7.0
15	25.0	23.5	11.5	11.5	9.0	9.0	6.5	5.5	10.0	9.5	10.0	8.5
16	23.5	21.5	12.0	11.5	9.0	8.5	8.0	6.5	10.0	9.5	10.5	9.5
17	24.5	21.5	12.0	11.5	9.0	8.5	7.0	6.0	9.5	9.0	11.0	10.5
18	24.5	21.5	14.5	11.5	10.5	9.0	7.0	6.0	9.5	9.0	11.5	11.0
19	24.5	22.0	14.0	13.0	11.0	9.0	8.5	7.0	10.0	8.5	12.0	11.0
20	23.5	20.5	14.5	14.0	10.5	8.5	9.5	6.0	10.5	9.0	13.5	12.0
21	23.5	20.0	15.0	14.0	10.0	9.0	9.0	7.0	11.5	10.0	14.5	13.5
22	24.0	20.0	15.0	14.0	10.0	9.0	9.5	7.0	11.5	7.0	15.5	14.5
23	24.0	20.5	15.0	15.0	11.5	10.0	9.5	8.0	7.0	6.0	15.5	15.0
24	25.5	21.0	15.0	14.5	11.5	10.5	11.0	8.5	6.5	5.5	15.0	14.5
25	24.0	23.0	15.0	14.0	10.5	9.5	10.0	9.5	8.0	6.0	14.5	13.0
26	24.5	23.5	15.0	14.0	11.0	9.5	10.5	9.0	9.5	8.0	13.5	12.0
27	24.5	23.5	14.5	13.5	11.0	9.5	11.5	9.5	9.5	9.5	13.0	12.0
28	24.0	23.0	13.5	12.0	11.0	9.5	11.5	11.0	10.5	9.5	12.0	11.0
29	25.0	23.0	13.5	12.0	11.0	10.0	12.0	10.5	---	---	11.0	10.0
30	23.5	23.0	12.0	11.0	13.0	10.5	13.0	12.0	---	---	10.5	9.5
31	24.5	23.5	---	---	13.0	10.0	12.0	8.0	---	---	12.0	10.5
MONTH	28.5	19.5	23.5	11.0	13.5	8.0	13.0	5.5	11.5	5.5	15.5	7.0

07050750 JAMES RIVER NEAR NIXA, MO.--Continued

PERIOD OF RECORD.--Water temperatures: November 1966 to September 1975 (discontinued).

EXTREMES, 1974-75.--Water temperatures: Maximum, 43.0°C Aug. 11, 12, 21; minimum, 5.5°C Jan 12-15, Feb. 24.

EXTREMES, 1966-75.--Water temperatures: Maximum, 43.0°C Aug. 11, 12, 21, 1975; minimum, 4°C Jan. 1, 2, 26, 1969.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL-ALCOHOL-ACTUATED THERMOGRAPH)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	12.0	16.5	15.0	26.0	23.5	31.5	28.0	26.0	22.0	34.5	30.0
2	14.5	13.5	16.5	16.0	28.0	23.0	31.5	28.0	35.0	22.5	36.0	30.0
3	13.5	12.0	16.0	15.5	29.0	23.0	32.0	28.5	35.0	22.5	38.5	29.5
4	14.5	13.0	17.0	16.0	29.5	25.0	33.0	28.5	36.5	20.5	39.5	29.5
5	15.0	13.5	20.5	17.0	29.5	25.0	33.5	28.5	37.0	20.0	33.0	28.5
6	15.5	14.0	21.5	19.5	31.5	25.5	34.0	26.0	31.5	21.0	36.0	23.5
7	15.5	15.0	24.0	20.5	30.5	27.0	32.0	27.0	38.5	20.5	39.0	21.0
8	15.0	14.5	24.5	21.5	30.5	27.0	34.0	29.0	39.0	18.5	37.0	24.0
9	16.0	14.5	25.5	21.5	30.0	26.5	34.0	28.0	38.0	17.0	34.0	23.0
10	17.0	15.5	24.5	21.5	29.0	26.5	32.0	27.0	39.5	20.0	31.5	24.0
11	15.0	14.5	23.5	21.5	26.5	24.5	30.5	25.5	43.0	21.0	31.5	30.0
12	16.0	14.5	24.0	21.0	25.5	23.5	29.5	23.0	43.0	21.0	30.0	21.5
13	16.0	15.0	24.0	21.0	28.0	23.0	30.5	23.5	32.0	23.0	21.5	21.0
14	15.0	15.0	23.5	21.0	29.0	25.5	31.5	22.0	28.5	23.5	21.5	21.5
15	16.0	15.0	24.0	20.0	28.5	25.5	32.0	22.0	33.0	23.5	21.5	21.5
16	17.0	15.5	24.5	20.0	31.0	25.5	32.0	22.0	39.0	25.5	21.5	21.0
17	18.5	16.5	24.5	20.5	28.0	20.5	33.0	23.0	35.5	24.5	23.5	21.5
18	19.0	17.0	24.5	20.5	23.5	20.5	30.0	24.0	41.0	24.0	25.5	23.5
19	18.5	17.0	26.0	21.5	25.0	22.0	31.0	25.0	38.5	24.0	25.5	23.5
20	20.0	17.0	25.5	24.0	27.0	23.5	30.5	24.5	42.0	23.0	23.5	21.0
21	20.0	17.0	26.0	24.0	28.5	25.0	32.0	24.0	43.0	24.0	21.0	20.0
22	20.5	18.0	27.0	23.0	27.0	25.0	35.5	25.5	40.0	24.0	20.0	20.0
23	21.5	19.0	27.0	24.0	27.0	25.0	33.0	24.5	42.5	24.5	21.0	20.0
24	23.0	19.0	26.5	24.5	27.0	25.0	30.0	23.0	37.0	24.0	21.0	20.5
25	23.0	20.0	27.0	24.0	29.5	25.5	33.0	21.5	35.0	23.5	21.0	20.0
26	20.0	19.0	26.0	24.0	30.5	26.5	29.0	24.0	33.5	22.0	22.0	20.0
27	20.5	19.5	28.0	24.0	31.5	26.0	36.5	21.5	29.0	22.0	22.0	20.0
28	20.5	20.0	28.0	25.0	32.0	29.5	35.0	20.0	31.5	23.0	21.5	20.5
29	20.0	19.5	28.5	24.5	31.5	29.0	35.5	21.5	35.5	22.0	24.0	21.0
30	20.0	15.0	28.5	24.5	33.0	28.5	32.0	21.5	32.0	21.5	25.0	22.0
31	---	---	26.0	23.5	---	---	32.0	22.0	32.0	29.5	---	---
MONTH	23.0	12.0	28.5	15.0	33.0	20.5	36.5	20.0	43.0	17.0	39.5	20.0

07051600 JAMES RIVER NEAR WILSON CREEK, MO

LOCATION.--Lat 37°04'35", long 93°22'15", Christian County, at Nelson Mill Bridge on county road 2.5 mi (4.0 km) southeast of Wilson Creek, and 2 mi (3.2 km) upstream from Wilson Creek.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT.										
01...	1545	80	7.9	30	0	60	9.0	4.8	1.9	208
15...	1340	155	--	--	--	--	--	--	--	194
29...	1600	127	--	--	--	--	--	--	--	206
NOV.										
13...	0945	1100	9.8	20	0	47	4.6	3.0	1.3	156
25...	1500	231	--	--	--	--	--	--	--	196
DEC.										
11...	1440	517	7.7	20	0	50	8.0	4.1	1.6	174
30...	1410	153	--	--	--	--	--	--	--	176
JAN.										
07...	1630	603	9.6	10	0	50	6.8	3.3	1.6	168
21...	1430	280	--	--	--	--	--	--	--	172
FEB.										
06...	0915	460	8.2	20	10	48	6.2	3.6	1.5	164
18...	1415	367	--	--	--	--	--	--	--	174
MAR.										
05...	1340	799	7.8	10	10	47	6.2	3.2	1.6	156
18...	1210	2040	--	--	--	--	--	--	--	122
APR.										
01...	1315	945	6.8	10	0	44	5.7	3.1	1.4	144
15...	1350	238	--	--	--	--	--	--	--	168
29...	1330	769	--	--	--	--	--	--	--	144
MAY										
15...	0900	182	6.8	10	40	48	7.3	3.6	1.9	176
27...	1335	136	--	--	--	--	--	--	--	182
JUNE										
12...	1430	206	8.9	20	30	56	5.6	4.0	1.8	188
23...	1430	434	--	--	--	--	--	--	--	178
JULY										
08...	1410	81	9.8	0	0	53	5.3	3.7	2.6	186
AUG.										
12...	1400	15	--	--	--	--	--	--	--	192
SEP.										
16...	1320	375	--	--	--	--	--	--	--	144

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT.									
01...	213	.29	46.0	.2	5	190	16	171	370
15...	--	--	--	--	--	--	--	159	360
29...	--	--	--	--	--	--	--	169	368
NOV.									
13...	164	.23	499	.1	5	140	8	128	285
25...	--	--	--	--	--	--	--	161	355
DEC.									
11...	191	.26	267	.1	5	160	15	143	335
30...	--	--	--	--	--	--	--	144	340
JAN.									
07...	177	.24	288	.1	4	150	15	138	323
21...	--	--	--	--	--	--	--	141	342
FEB.									
06...	181	.25	420	.1	5	150	11	135	300
18...	--	--	--	--	--	--	--	143	325
MAR.									
05...	165	.22	356	.1	5	140	15	128	310
18...	--	--	--	--	--	--	--	100	243
APR.									
01...	155	.21	395	.1	5	130	15	118	290
15...	--	--	--	--	--	--	--	138	318
29...	--	--	--	--	--	--	--	118	290
MAY									
15...	184	.25	90.4	.1	5	150	6	144	320
27...	--	--	--	--	--	--	--	149	342
JUNE									
12...	193	.26	107	.1	5	140	9	154	345
23...	--	--	--	--	--	--	--	146	325
JULY									
08...	194	.26	42.4	.1	5	150	3	151	343
AUG.									
12...	209	.28	8.46	--	--	--	--	158	375
SEP.									
16...	172	.23	174	--	--	--	--	118	290

07041600 JAMES RIVER NEAR WILSON CREEK, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: August 1967 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT.									
01...	0	11	9.8	.1	1.1	.01	.38	.05	.05
15...	0	--	--	--	--	--	--	--	--
29...	0	--	--	--	--	--	--	--	--
NOV.									
13...	0	7.3	4.8	.0	1.7	.06	.09	.06	.06
25...	0	--	--	--	--	--	--	--	--
DEC.									
11...	0	12	9.1	.0	1.3	.01	.10	.04	.03
30...	0	--	--	--	--	--	--	--	--
JAN.									
07...	0	8.9	6.9	.0	1.6	.01	.14	.01	.01
21...	0	--	--	--	--	--	--	--	--
FEB.									
06...	0	8.5	6.0	.0	1.8	.00	.15	.01	.02
18...	0	--	--	--	--	--	--	--	--
MAR.									
05...	0	7.8	6.3	.0	1.9	.01	.11	.03	.01
18...	0	--	--	--	--	--	--	--	--
APR.									
01...	0	8.3	5.9	.1	.00	.01	.05	.01	.01
15...	0	--	--	--	--	--	--	--	--
29...	0	--	--	--	--	--	--	--	--
MAY									
15...	0	9.7	6.8	.0	1.0	.02	.07	.02	.03
27...	0	--	--	--	--	--	--	--	--
JUNE									
12...	0	8.3	6.4	.0	1.4	.02	.36	.03	.06
23...	0	--	--	--	--	--	--	--	--
JULY									
08...	0	11	7.2	.1	1.1	.10	.28	.03	.09
AUG.									
12...	0	20	9.8	--	--	.07	.45	--	.02
SEP.									
16...	0	11	5.1	--	--	.00	.62	--	.07

DATE	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	TEMPERATURE (DEG C)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT.									
01...	7.9	3	--	17.5	6	7.2	75	64	144
15...	7.7	--	--	16.5	--	7.6	78	900	--
29...	7.8	--	--	19.5	--	6.9	74	200	--
NOV.									
13...	7.6	20	--	11.0	4	8.1	74	600	780
25...	7.9	--	--	12.0	--	9.4	91	77	--
DEC.									
11...	8.0	5	--	7.5	1	8.9	74	170	160
30...	8.0	--	--	10.0	--	10.2	90	44	--
JAN.									
07...	8.1	5	--	9.0	5	9.1	78	12	12
21...	7.9	--	--	8.0	--	11.9	100	16	--
FEB.									
06...	8.0	5	--	7.0	5	10.4	86	66	28
18...	7.9	--	--	8.0	--	11.0	92	24	--
MAR.									
05...	7.9	10	--	8.0	4	8.6	72	20	10
18...	7.9	--	--	10.0	--	10.0	88	5900	--
APR.									
01...	7.9	5	--	10.0	4	10.0	96	44	36
15...	8.0	--	--	14.5	--	11.0	107	21	--
29...	7.9	--	--	19.5	--	8.1	87	240	--
MAY									
15...	7.8	0	--	19.0	7	6.7	71	180	160
27...	7.6	--	--	22.0	--	6.7	76	860	--
JUNE									
12...	7.8	8	--	22.0	7	6.6	75	800	1900
23...	7.8	--	--	24.0	--	7.2	85	220	--
JULY									
08...	7.8	5	9	26.0	12	6.0	73	360	170
AUG.									
12...	7.9	--	19	25.5	2	9.0	110	190	--
SEP.									
16...	7.8	--	10	20.0	14	7.5	82	500	--

07052100 WILSON CREEK NEAR SPRINGFIELD, MO.

LOCATION.--Lat 37°10'06", long 93°22'14", in NE¼NE¼ sec.6 T.28 N., R.22 W., Greene County, multi-parameter recorder at gaging station on right bank just downstream from bridge on county road, 1 mi (1.6 km) upstream from Southwest Sewage Treatment Plant of Springfield and South Creek.

DRAINAGE AREA.--31.4 mi² (81.3 km²).

PERIOD OF RECORD.--October 1972 to September 1975.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1											---	---
2											---	---
3											---	---
4											---	---
5											---	---
6											---	---
7											---	---
8											---	---
9											---	---
10											---	---
11											---	---
12											---	---
13											---	---
14											---	---
15											---	---
16											---	---
17											---	---
18											---	---
19											---	---
20											500	430
21											790	440
22											790	470
23											540	470
24											540	500
25											610	570
26											---	---
27											---	---
28											490	360
29											510	410
30											520	510
31											520	500
MONTH											---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			540	500	540	470	490	460	490	460		
2			560	500	490	420	500	460	550	490		
3			540	500	440	290	530	470	620	550		
4			550	520	1720	320	520	470	630	600		
5			560	520	1420	190	540	500	620	600		
6			580	540	490	320	550	480	620	560		
7			590	560	540	300	480	400	560	540		
8			610	560	480	360	490	440	570	540		
9			630	610	---	---	550	480	570	550		
10			640	590	---	---	560	500	570	550		
11			600	560	590	360	800	550	620	570		
12			600	560	600	490	680	590	620	600		
13			570	540	600	570	630	380	860	620		
14			560	540	570	550	530	410	700	170		
15			580	530	580	340	560	520	390	220		
16			570	540	510	400	550	510	360	210		
17			630	560	430	80	520	500	350	240		
18			600	570	560	420	630	480	470	390		
19			580	530	560	520	620	290	560	470		
20			560	240	580	520	370	260	610	560		
21			440	230	560	520	430	360	600	540		
22			540	460	560	510	490	430	560	540		
23			570	540	540	510	510	480	580	560		
24			580	570	590	540	570	510	560	500		
25			670	200	570	530	570	550	500	470		
26			500	340	560	510	560	530	570	240		
27			530	500	580	510	580	530	330	280		
28			590	520	540	420	620	550	410	370		
29			590	170	510	390	550	470	520	410		
30			510	360	470	410	490	470	520	100		
31			570	510	---	---	480	440	410	300		
MONTH			670	170	1720	80	800	260	860	100		

07052100 WILSON CREEK NEAR SPRINGFIELD, MO.--Continued

EXTREMES, 1974-75.--PH: Maximum, 8.7 Mar. 21, 22, 24; minimum, 7.3 June 17, Aug. 14.
Dissolved oxygen: Maximum, 18.3 mg/l Jan. 23; minimum, 1.1 mg/l Aug. 14.
Water temperature: Maximum, 28.5°C July 22; minimum 0.5°C Dec. 4, Jan. 13, Mar. 11.

EXTREMES, 1972-75.--Water temperature: Maximum, 29.0°C Aug. 22, 1974: Minimum freezing point on many days during December 1973 and January 1974.

PH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.2	8.1	7.8	7.6	8.5	8.1	8.0	7.8	8.3	8.1	8.2	8.1
2	8.2	8.2	7.8	7.5	8.6	8.2	8.0	7.9	8.2	7.9	8.1	8.0
3	8.2	8.1	7.8	7.5	8.4	8.1	8.1	7.8	8.0	7.9	8.2	8.0
4	8.2	8.1	7.7	7.4	8.3	8.1	8.2	7.9	8.2	8.0	8.5	8.2
5	8.2	8.2	7.8	7.6	8.5	8.1	8.2	7.9	8.1	7.8	8.5	8.2
6	8.2	8.2	7.9	7.7	8.2	7.9	8.2	7.9	8.0	7.8	8.5	8.2
7	8.2	8.2	7.9	7.8	8.0	7.9	8.4	7.9	8.1	7.9	8.2	7.9
8	8.3	8.2	7.8	7.8	8.2	7.9	8.4	8.1	8.1	7.9	8.3	8.0
9	8.2	8.1	7.9	7.8	8.2	7.9	8.5	8.0	8.1	7.9	8.5	8.2
10	8.1	8.0	7.7	7.4	8.3	8.0	8.1	7.6	8.2	7.9	8.6	8.3
11	8.1	7.9	7.7	7.5	8.1	7.7	7.7	7.6	8.2	7.9	8.4	8.1
12	7.9	7.5	8.0	7.7	8.1	7.8	7.9	7.7	8.5	8.0	8.1	7.9
13	7.6	7.5	8.0	7.9	8.2	7.9	7.9	7.7	8.6	8.2	8.3	8.1
14	8.1	7.5	8.1	8.0	8.1	7.9	8.4	7.7	8.6	8.3	8.3	8.0
15	8.1	7.9	8.1	7.9	8.2	8.0	8.4	8.1	8.6	8.4	8.3	8.0
16	8.2	8.1	8.1	8.0	8.1	7.9	8.3	8.0	8.5	8.2	8.2	8.0
17	8.2	8.1	8.2	8.1	8.3	7.9	8.2	8.0	8.5	8.2	8.3	8.0
18	8.2	8.1	8.3	8.2	8.3	8.0	8.4	8.0	8.4	8.2	8.0	7.7
19	8.2	8.1	8.3	8.1	8.4	8.1	8.2	7.9	8.5	8.2	8.2	8.0
20	8.3	8.2	8.3	8.0	8.4	8.1	8.3	7.9	8.4	8.1	8.3	8.0
21	8.3	8.2	8.3	8.1	8.5	8.1	8.5	7.9	8.4	8.1	8.7	8.3
22	8.3	8.2	8.4	8.1	8.5	8.1	8.5	8.1	8.2	7.7	8.7	8.4
23	8.3	8.2	8.4	8.2	8.5	8.1	8.5	8.1	8.0	7.7	8.5	8.3
24	8.4	8.2	8.5	8.2	8.3	8.1	8.3	8.0	8.1	8.0	8.7	8.2
25	8.4	8.2	8.4	8.2	8.5	8.1	8.3	7.9	8.2	8.1	8.6	8.1
26	8.3	8.0	8.4	8.1	8.4	8.1	8.4	7.8	8.2	8.1	---	---
27	8.4	8.0	8.4	8.1	8.4	8.1	8.4	8.0	8.3	8.2	---	---
28	8.4	8.0	8.4	8.1	8.4	8.1	8.3	7.9	8.2	8.1	8.2	7.8
29	8.1	8.0	8.4	8.2	8.2	7.9	8.4	7.9	---	---	8.2	7.9
30	8.2	8.0	8.4	8.2	8.3	7.9	8.2	7.6	---	---	8.3	8.0
31	8.0	7.6	---	---	7.9	7.5	8.1	7.5	---	---	8.4	8.0
MONTH	8.4	7.5	8.5	7.4	8.6	7.5	8.6	7.5	8.6	7.7	8.7	7.7

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.1	8.1	8.0	---	---	8.1	7.9	8.0	7.9	8.1	8.0
2	8.3	8.0	8.2	8.0	---	---	8.2	7.9	8.2	8.0	8.2	8.0
3	8.4	8.0	8.3	8.2	---	---	8.2	8.0	8.3	8.1	8.2	8.0
4	8.5	8.0	8.3	8.1	---	---	8.2	8.0	8.2	8.0	8.1	8.0
5	8.5	8.1	8.3	8.2	8.4	7.7	8.3	8.0	8.1	7.9	8.0	7.9
6	8.4	8.1	8.3	8.1	8.6	8.1	8.3	7.9	8.1	7.9	8.0	7.9
7	8.4	8.0	8.3	8.1	8.3	7.8	7.9	7.5	8.1	8.0	8.0	7.8
8	8.3	8.1	8.1	7.7	8.3	8.0	8.0	7.8	8.0	7.9	8.1	7.9
9	8.5	8.0	8.0	7.9	8.3	8.2	8.2	7.9	8.1	7.9	8.3	8.1
10	8.4	8.0	8.1	7.8	8.3	7.5	8.3	8.0	8.1	7.9	8.2	7.6
11	8.4	8.0	8.1	8.0	8.0	7.8	8.4	8.1	8.1	8.0	7.9	7.4
12	8.4	8.0	8.2	8.0	8.1	7.9	8.4	8.2	8.0	7.9	7.8	7.5
13	8.4	8.0	8.2	8.0	8.1	8.0	8.2	7.8	8.1	7.8	8.0	7.8
14	8.4	8.1	8.3	8.1	8.0	7.9	8.1	7.9	7.8	7.3	8.1	7.9
15	8.4	7.8	8.3	8.1	7.9	7.8	8.1	8.0	7.9	7.6	8.1	7.5
16	8.5	7.9	8.3	8.0	7.8	7.7	8.2	8.0	8.0	7.8	8.0	7.6
17	8.1	7.8	8.1	7.9	8.1	7.3	8.3	8.0	8.2	7.8	8.0	7.9
18	8.1	7.8	8.1	7.9	8.0	7.7	8.4	8.2	8.2	8.1	8.0	8.0
19	8.2	8.0	8.2	8.0	8.1	7.9	8.4	7.8	8.2	8.0	8.0	7.4
20	8.3	8.0	8.4	7.8	8.2	8.0	8.0	7.8	8.3	8.1	8.0	7.7
21	8.2	8.0	8.0	7.7	8.0	7.8	8.1	7.9	8.3	8.2	8.1	8.0
22	8.1	7.9	8.1	7.9	8.0	7.9	8.2	8.0	8.3	8.1	8.2	8.1
23	7.9	7.7	8.0	7.8	8.1	8.0	8.2	8.0	8.4	8.2	8.1	8.0
24	7.9	7.5	8.0	7.8	8.1	8.0	8.2	8.0	8.3	8.2	8.2	8.0
25	8.1	7.8	7.9	7.5	8.3	8.1	8.2	8.0	8.3	8.1	8.3	8.1
26	8.2	8.0	8.0	7.7	8.2	8.0	8.1	7.9	8.2	7.7	8.4	8.2
27	8.0	7.9	8.2	8.0	8.2	8.0	8.1	7.9	7.7	7.7	8.5	8.3
28	8.0	7.6	8.2	8.0	8.1	7.7	8.2	8.0	7.9	7.7	8.4	8.3
29	8.2	8.0	8.2	7.8	8.0	7.7	8.0	7.8	8.1	7.7	8.3	7.7
30	8.1	7.5	---	---	8.1	7.7	7.9	7.8	8.2	7.7	8.1	7.5
31	---	---	---	---	---	---	8.0	7.9	8.2	7.9	---	---
MONTH	8.5	7.5	8.4	7.5	8.6	7.3	8.4	7.5	8.4	7.3	8.5	7.4

07052100 WILSON CREEK NEAR SPRINGFIELD, MO.--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.6	7.8	8.4	6.7	16.7	10.4	11.4	10.8	10.3	9.2	9.9	8.0
2	9.8	7.6	8.4	6.4	17.2	10.4	11.1	10.8	10.5	9.6	11.0	8.0
3	9.8	7.8	---	---	16.3	10.7	11.5	9.7	11.3	8.8	11.8	8.0
4	9.2	7.9	---	---	15.5	10.7	12.4	10.3	10.9	9.1	13.2	9.6
5	8.6	6.4	---	---	16.5	9.7	12.7	10.1	10.6	9.2	14.9	8.8
6	7.8	5.8	9.3	8.6	9.7	8.4	12.9	10.8	12.7	9.8	14.3	9.5
7	9.0	6.1	9.5	8.7	9.5	8.5	13.3	9.9	12.9	10.0	10.4	9.0
8	9.4	6.9	9.5	8.5	13.2	9.3	14.1	8.7	12.8	10.0	13.2	9.4
9	9.5	6.6	9.6	8.7	13.6	10.5	14.8	8.7	13.6	10.4	12.0	9.6
10	9.8	6.8	8.9	8.0	13.5	9.5	9.5	8.8	13.6	10.0	13.9	9.6
11	8.9	5.9	9.1	8.3	9.6	8.9	12.8	9.5	13.1	9.8	12.2	9.5
12	7.7	4.3	9.9	8.9	10.8	8.9	13.9	10.7	15.3	9.8	11.0	9.8
13	6.8	4.2	9.7	9.2	11.7	9.3	13.9	10.8	16.3	9.6	10.6	9.8
14	8.0	4.8	10.5	9.5	11.3	9.2	14.1	10.4	16.4	9.2	11.2	9.2
15	9.4	8.0	10.6	9.1	12.4	9.2	14.3	9.5	16.2	8.7	11.2	8.8
16	9.6	8.9	10.0	9.1	12.4	10.0	15.1	9.5	12.7	9.0	10.8	9.4
17	9.6	7.7	10.6	8.8	13.1	10.4	12.7	9.6	13.1	9.0	11.3	8.0
18	9.5	7.6	10.9	8.8	13.2	10.0	15.6	9.1	13.5	9.6	9.0	8.0
19	10.1	7.5	10.8	8.5	13.9	10.0	13.3	5.9	15.4	9.9	10.6	8.0
20	10.6	8.2	12.0	8.5	14.1	10.0	16.4	9.5	16.2	9.1	11.6	8.0
21	11.1	8.2	13.1	8.9	14.8	10.0	17.9	9.6	16.7	8.3	12.5	8.0
22	11.6	8.5	13.6	8.4	14.9	9.7	17.5	9.7	10.6	7.9	14.0	8.0
23	11.7	7.9	12.9	8.3	14.7	9.1	10.3	10.3	9.8	9.0	14.7	8.0
24	12.2	7.4	15.1	8.3	11.7	8.7	13.7	8.7	10.3	9.4	15.8	9.0
25	11.4	6.6	15.3	9.7	10.3	10.1	13.2	7.9	10.4	8.7	16.4	12.1
26	9.0	6.5	15.5	9.9	14.5	10.9	17.7	8.8	10.1	8.4	---	---
27	9.8	6.9	15.9	9.6	14.4	10.4	17.6	9.2	10.3	8.2	---	---
28	8.9	6.3	16.1	9.9	15.3	10.1	13.1	8.6	10.3	9.0	9.6	8.6
29	7.6	6.2	13.3	9.5	10.1	8.7	17.1	7.2	---	---	11.6	9.6
30	8.6	5.6	16.3	11.1	12.5	8.7	10.3	8.1	---	---	12.0	9.2
31	6.7	5.6	---	---	10.4	9.2	10.3	9.3	---	---	12.6	8.9
MONTH	12.2	4.2	16.3	6.4	17.2	8.4	19.3	5.9	16.7	7.9	16.4	8.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	8.2	9.0	7.0	6.7	5.4	7.6	5.2	6.0	4.1	---	---
2	13.0	8.2	---	---	6.6	4.8	7.6	5.3	6.3	4.6	---	---
3	16.9	10.0	---	---	6.4	3.6	6.9	5.0	5.6	4.2	6.5	5.2
4	17.3	9.2	---	---	7.5	5.4	6.5	4.5	5.8	4.1	5.9	4.6
5	17.9	9.1	---	---	6.6	5.6	5.7	4.2	6.1	4.6	6.0	4.4
6	18.2	8.8	10.2	7.3	7.0	5.6	5.2	3.3	6.6	4.5	6.3	4.7
7	16.6	8.6	10.0	6.4	6.2	5.2	4.6	1.6	6.6	4.6	6.5	5.2
8	16.2	8.6	6.8	5.8	7.2	5.5	5.7	3.6	6.6	4.6	6.7	5.1
9	17.8	7.2	9.1	5.9	7.3	6.0	6.0	4.4	6.8	6.0	7.8	5.1
10	17.1	7.3	8.5	6.1	7.0	4.4	6.2	4.7	6.5	5.8	7.3	6.0
11	16.8	8.1	9.8	6.8	7.2	6.7	6.6	4.9	6.0	3.8	6.6	5.2
12	16.2	8.4	9.8	6.8	7.6	6.5	6.8	5.2	4.5	3.2	7.4	6.0
13	13.7	7.8	9.2	7.1	7.3	6.0	6.3	4.2	4.1	2.0	8.3	7.4
14	12.9	8.5	9.1	7.1	7.2	4.7	7.4	5.0	3.2	1.1	8.3	7.5
15	15.7	7.6	9.0	7.0	5.8	4.4	8.0	5.9	5.3	3.0	7.8	6.8
16	14.6	6.2	9.3	7.0	6.5	4.9	7.3	5.9	5.1	4.0	7.2	6.8
17	13.3	5.9	---	---	8.0	6.5	7.3	5.6	5.1	3.9	7.3	6.4
18	10.3	5.0	---	---	8.0	6.0	6.8	5.3	5.0	4.3	7.2	6.0
19	13.2	6.6	---	---	7.6	6.0	6.1	2.6	5.2	4.1	7.1	6.2
20	13.2	6.4	7.8	4.6	---	---	4.8	2.8	5.4	4.1	7.6	7.1
21	12.6	6.0	6.9	5.3	---	---	5.9	4.0	5.3	4.0	8.2	7.2
22	12.3	5.8	7.2	6.1	---	---	[illegible]	4.2	5.4	4.0	8.4	7.4
23	6.1	5.2	7.2	6.1	---	---	[illegible]	4.1	5.1	3.8	8.4	7.4
24	7.8	5.3	7.4	6.2	8.7	6.5	6.6	4.6	5.0	2.9	8.8	7.3
25	---	---	7.0	6.1	7.9	6.1	6.9	5.0	4.4	2.8	9.0	7.6
26	---	---	7.6	6.1	7.8	5.8	6.6	5.0	4.9	3.1	9.2	7.6
27	---	---	7.8	6.6	7.7	5.4	6.3	5.0	4.1	2.6	8.8	6.9
28	---	---	7.9	6.5	7.2	3.7	5.7	3.9	5.2	3.6	7.8	6.4
29	---	---	7.1	6.0	7.0	5.1	4.8	2.3	5.9	3.6	9.2	1.2
30	7.6	6.8	7.6	6.0	7.4	5.0	4.2	1.8	---	---	9.0	5.0
31	---	---	8.0	6.0	---	---	5.3	2.4	---	---	---	---
MONTH	18.2	5.0	---	---	8.7	3.6	8.0	1.6	6.8	1.1	9.2	1.2
YEAR	18.3	1.1										

07052100 WILSON CREEK NEAR SPRINGFIELD, MO.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	13.0	16.5	14.5	4.0	3.0	8.5	6.0	8.5	8.0	12.0	8.5
2	15.5	12.5	16.0	13.5	4.5	2.5	6.5	6.0	9.0	8.0	10.0	6.0
3	14.0	12.0	16.0	14.5	4.5	1.0	7.5	5.5	11.0	8.5	10.0	5.5
4	15.0	13.0	14.5	12.5	5.0	0.5	8.0	4.0	10.5	9.5	9.0	7.0
5	17.5	15.0	14.5	11.5	7.5	4.0	7.0	4.5	10.0	4.5	12.5	7.5
6	17.0	15.0	13.5	10.0	8.5	7.5	8.5	5.5	4.5	2.0	13.0	8.5
7	15.0	13.0	12.5	10.0	8.5	7.5	10.5	6.0	6.5	1.0	12.5	6.5
8	14.5	12.5	14.5	11.0	7.5	3.5	10.0	7.5	8.5	4.0	10.0	5.5
9	15.0	12.5	13.0	11.0	5.5	1.5	10.5	6.0	5.0	1.0	8.0	1.5
10	15.0	12.0	12.5	11.0	8.0	4.0	11.5	6.5	7.5	1.5	8.0	1.5
11	16.5	13.5	13.5	11.5	8.0	6.5	6.5	3.5	9.0	5.5	6.5	0.5
12	18.0	16.0	12.0	9.5	9.5	7.5	3.5	1.5	8.0	6.0	4.5	2.0
13	19.5	17.0	11.5	9.5	10.0	7.0	4.0	0.5	8.5	4.5	6.5	5.0
14	19.5	14.0	9.5	7.5	9.0	6.5	5.5	2.0	9.5	6.5	10.5	4.5
15	15.5	12.0	10.5	6.5	8.0	6.0	8.0	3.5	9.5	7.5	11.0	5.0
16	15.5	9.5	10.0	9.0	6.0	4.5	6.5	4.0	7.5	6.5	12.0	7.0
17	17.0	11.5	11.0	9.5	5.5	3.0	4.5	3.0	6.5	5.0	14.0	7.5
18	17.0	12.5	12.0	11.0	6.5	3.5	9.0	4.5	6.0	5.0	11.5	8.5
19	16.0	12.5	14.0	11.0	7.0	4.0	7.5	4.0	8.0	3.5	15.0	8.5
20	14.5	10.5	12.0	10.0	7.5	5.5	4.5	1.5	9.5	3.5	17.0	9.5
21	14.0	10.5	12.0	8.0	6.5	4.0	6.0	3.0	12.0	6.5	17.0	12.0
22	14.0	10.0	13.5	8.5	9.0	4.0	5.5	3.5	11.0	5.0	17.0	12.0
23	15.0	12.5	16.0	12.0	12.0	8.5	7.0	2.0	6.5	3.5	17.5	12.0
24	16.0	13.0	13.0	8.0	11.0	6.0	7.5	5.0	6.0	4.0	13.5	9.0
25	16.5	15.0	9.0	5.5	6.0	3.5	7.5	6.0	10.5	5.0	11.0	5.5
26	18.0	16.0	8.5	5.5	4.0	2.0	8.0	4.5	11.0	5.0	---	---
27	17.5	14.5	8.5	6.0	5.5	4.0	10.0	5.0	10.5	4.5	---	---
28	16.0	14.0	8.5	4.5	6.5	4.0	11.0	8.0	12.0	6.5	10.0	7.0
29	19.5	15.0	7.5	2.0	8.5	6.5	12.0	9.5	---	---	8.0	5.5
30	20.0	16.0	3.0	2.0	8.5	7.5	9.5	6.0	---	---	12.0	5.5
31	19.0	16.0	---	---	8.5	7.0	8.5	6.5	---	---	13.5	7.0
MONTH	20.0	9.5	16.5	2.0	12.0	0.5	12.0	0.5	12.0	1.0	17.5	0.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	8.0	19.5	13.0	20.5	16.0	25.0	21.5	25.5	23.5	26.5	23.0
2	15.0	5.5	16.5	13.5	22.5	17.5	26.0	21.5	26.0	23.0	27.0	24.0
3	12.0	4.0	19.5	13.5	24.5	18.5	26.0	22.5	26.5	24.5	27.0	24.0
4	14.5	6.5	21.0	13.5	23.5	20.5	27.0	23.0	26.0	23.5	27.0	25.0
5	15.5	8.5	22.0	15.5	25.5	20.0	27.5	24.5	25.5	22.0	26.0	24.0
6	16.0	9.5	22.5	18.5	27.0	21.5	27.5	25.5	25.5	22.5	24.0	21.5
7	13.0	9.5	24.0	19.0	26.0	21.5	28.0	24.5	25.0	22.5	22.0	19.0
8	13.0	9.0	23.5	17.5	24.0	20.5	28.0	24.5	24.5	21.5	22.0	19.0
9	18.0	11.5	23.5	18.0	23.5	20.5	27.5	24.5	24.0	20.5	22.5	20.0
10	15.5	11.0	22.0	18.5	23.5	19.0	26.5	23.5	25.0	21.5	23.0	21.0
11	14.0	9.0	21.5	17.0	20.0	18.0	25.0	21.5	26.5	22.5	23.0	20.5
12	16.0	8.0	21.0	17.0	22.5	16.0	23.5	20.0	27.0	23.5	21.0	16.5
13	13.0	10.0	20.0	16.0	24.5	18.5	22.0	18.5	27.0	24.5	18.5	14.5
14	11.5	9.5	21.0	17.0	25.0	20.0	22.5	19.0	26.0	23.5	17.0	15.5
15	17.5	9.0	20.5	17.0	24.0	20.0	24.0	20.5	24.5	23.0	16.5	15.0
16	20.5	13.0	20.0	15.0	24.0	18.5	24.5	21.0	26.5	22.5	18.0	16.0
17	19.5	14.0	21.0	16.0	23.0	18.5	26.0	22.5	25.5	23.5	20.5	17.0
18	19.0	15.0	22.0	17.0	23.5	19.0	25.0	23.5	26.0	23.0	22.5	18.5
19	17.0	11.0	24.5	20.0	24.0	19.5	26.5	23.5	27.0	24.5	22.0	17.0
20	18.5	16.0	24.0	20.0	25.0	20.0	26.5	24.0	27.0	24.0	18.5	14.5
21	20.0	13.0	24.0	17.0	25.5	20.0	27.5	24.5	28.0	25.5	16.0	14.0
22	20.0	13.0	25.0	20.0	23.0	20.0	28.5	25.5	28.0	25.5	17.0	12.5
23	22.0	16.0	24.5	21.5	23.0	19.5	28.0	25.5	27.5	25.5	17.5	12.5
24	21.0	14.5	23.5	21.0	25.0	20.0	26.0	24.5	27.0	25.5	16.0	14.0
25	21.5	16.0	23.5	19.0	25.5	21.0	26.0	24.5	27.0	25.0	16.5	12.0
26	21.5	17.0	22.0	20.0	26.0	21.5	25.0	23.5	26.0	22.0	16.0	11.5
27	22.5	18.0	23.0	19.0	26.0	21.5	26.0	23.5	25.0	23.0	17.0	12.0
28	20.0	17.0	22.5	20.0	26.5	22.5	27.0	23.5	25.0	23.0	16.5	14.5
29	21.0	14.0	23.0	19.0	26.5	22.5	27.0	23.5	25.0	23.0	19.0	14.5
30	19.0	16.0	23.0	20.0	25.5	22.5	27.0	25.0	25.0	20.5	19.5	15.5
31	---	---	21.5	18.0	---	---	26.5	24.5	25.5	21.5	---	---
MONTH	22.5	4.0	25.0	13.0	27.0	16.0	28.5	18.5	28.0	20.5	27.0	11.5

07052160 WILSON CREEK NEAR BATTLEFIELD, MO.

LOCATION.--Lat 37°07'02", long 93°24'14", in SW¼NW¼ sec.24, T.28 N., R.23 W., Greene County, multi-parameter recorder at gaging station on left bank 300 ft (91 m) downstream from bridge on county road, 0.3 mi (0.5 km) upstream from McElhaney Branch, and 1.8 mi (2.9 km) west of Battlefield.

DRAINAGE AREA.--55.0 mi² (142 km²).

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	698	630	552	506	640	600	500	480	490	450	---	---
2	742	644	616	542	660	622	500	480	500	470	---	---
3	742	688	556	300	660	630	530	500	510	490	---	---
4	754	690	410	250	700	626	540	520	540	490	---	---
5	752	700	462	400	736	662	550	530	560	510	---	---
6	746	694	478	452	798	620	560	540	560	540	570	550
7	764	704	492	476	620	584	600	560	580	550	570	350
8	750	694	496	470	594	564	600	560	580	560	520	480
9	798	722	498	482	584	554	610	570	570	550	530	500
10	836	768	514	268	604	566	670	380	580	550	540	500
11	834	782	414	344	656	476	510	490	---	---	570	240
12	884	688	484	414	602	558	540	490	---	---	340	240
13	746	650	494	478	628	580	560	530	---	---	430	360
14	764	240	496	492	632	594	600	560	---	---	560	430
15	570	486	520	480	630	578	620	580	---	---	560	480
16	632	564	520	510	584	554	640	590	---	---	480	430
17	690	622	520	500	580	548	650	600	---	---	440	410
18	708	648	530	500	640	580	660	620	---	---	450	330
19	790	644	578	520	650	600	660	610	---	---	440	390
20	784	658	578	550	670	620	640	600	---	---	480	440
21	726	670	590	556	690	620	650	610	---	---	484	440
22	700	628	596	554	680	640	680	640	---	---	510	470
23	710	670	600	570	640	610	690	630	---	---	490	460
24	750	664	594	564	620	580	750	630	---	---	510	470
25	758	674	588	566	620	590	690	630	---	---	560	510
26	736	270	598	540	620	580	680	640	---	---	570	540
27	622	550	668	564	610	550	690	640	---	---	620	240
28	622	598	660	614	620	550	740	650	---	---	430	390
29	610	444	658	612	670	550	800	720	---	---	440	400
30	658	560	644	598	680	640	810	440	---	---	440	420
31	690	422	---	---	720	320	470	380	---	---	490	440
MONTH	884	240	668	250	798	320	810	380	---	---	620	240

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	800	480	590	530	750	720	800	760	960	880	916	756
2	850	480	640	590	750	620	870	760	960	870	872	780
3	840	520	670	620	740	480	880	780	1030	840	964	872
4	850	510	680	630	750	650	870	800	960	900	968	828
5	610	520	660	630	810	430	800	700	1040	960	990	878
6	620	560	680	630	620	540	870	700	1060	940	1020	898
7	580	520	720	670	690	500	---	---	1100	1000	1020	842
8	660	570	850	470	680	520	900	760	1140	1000	994	828
9	640	600	680	630	730	570	890	850	1140	1070	1140	954
10	640	580	660	630	760	200	890	850	---	---	1120	234
11	630	570	650	620	560	480	870	780	---	---	554	224
12	630	570	640	600	600	560	970	810	---	---	470	200
13	630	580	680	630	690	590	1070	760	---	---	648	470
14	660	590	760	680	680	630	900	720	---	---	682	604
15	680	643	810	720	630	540	960	900	---	---	722	450
16	700	640	870	770	620	530	960	830	---	---	670	504
17	700	640	860	780	530	180	1040	930	---	---	756	650
18	690	640	800	780	500	400	1040	890	---	---	786	730
19	700	630	810	760	540	500	1080	900	---	---	777	253
20	700	620	840	200	550	540	1100	740	---	---	574	502
21	620	563	510	200	600	550	880	720	---	---	609	574
22	670	590	590	510	600	560	930	830	---	---	650	598
23	870	450	640	580	610	560	1000	930	---	---	697	650
24	730	260	700	640	690	610	1050	900	---	---	728	697
25	480	210	750	300	710	690	960	840	---	---	770	700
26	510	480	580	500	710	670	950	880	---	---	826	754
27	510	490	610	580	840	700	930	840	---	---	894	782
28	560	480	660	610	780	680	970	850	1060	978	884	790
29	570	520	770	370	730	580	1090	800	1090	990	932	338
30	620	470	680	600	790	600	1010	920	1060	502	748	640
31	---	---	740	680	---	---	970	850	780	738	---	---
MONTH	870	210	870	200	840	180	1100	700	---	---	1140	200

07052160 WILSON CREEK NEAR BATTLEFIELD, MO.--Continued

PERIOD OF RECORD.--November 1972 to September 1975.

EXTREMES, 1974-75.--Specific conductance: Maximum, 1,160 micromhos Sept. 9; minimum 180 micromhos June 17.
PH: Maximum, 8.1 Nov. 2, May 25, July 6, Aug. 7; minimum, 6.9 Sept. 7.
Dissolved oxygen: Maximum, 13.5 mg/l Dec. 31; minimum, 0.0 mg/l on many days during the year.
Water temperature: Maximum, 26.5°C Aug. 27; minimum 5.0°C Mar. 13.

PH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	7.3	7.8	7.5	---	---	7.6	7.5	7.5	7.3	7.6	7.6
2	7.4	7.3	8.1	7.8	---	---	7.5	7.4	7.4	7.3	7.6	7.4
3	7.5	7.3	7.8	7.4	7.8	7.5	7.4	7.4	7.4	7.3	7.5	7.4
4	7.4	7.2	7.6	7.3	7.9	7.4	7.5	7.4	7.5	7.4	7.5	7.5
5	7.4	7.3	7.5	7.4	8.0	7.8	7.5	7.4	7.6	7.4	7.5	7.5
6	7.4	7.3	7.4	7.2	7.8	7.2	7.5	7.5	7.5	7.3	7.5	7.4
7	7.4	7.3	7.5	7.3	7.6	7.4	7.5	7.5	7.6	7.3	7.9	7.5
8	7.4	7.2	7.5	7.4	7.7	7.3	7.5	7.4	7.6	7.5	7.6	7.3
9	7.5	7.3	7.5	7.4	7.8	7.3	7.5	7.4	7.5	7.3	7.6	7.3
10	7.5	7.4	7.7	7.5	7.7	7.5	7.7	7.4	7.4	7.3	7.6	7.4
11	7.6	7.4	7.7	7.5	7.7	7.5	7.6	7.5	7.5	7.4	8.0	7.5
12	7.5	7.4	7.5	7.2	7.7	7.6	7.5	7.4	7.5	7.4	7.7	7.3
13	7.4	7.3	7.5	7.3	7.7	7.5	7.5	7.4	7.6	7.4	7.4	7.4
14	7.4	7.3	7.6	7.3	7.6	7.5	7.6	7.5	7.6	7.4	7.4	7.3
15	7.3	7.1	7.6	7.5	7.6	7.5	7.6	7.4	7.6	7.5	7.5	7.4
16	7.4	7.3	7.6	7.5	7.5	7.5	7.5	7.4	7.7	7.4	7.6	7.5
17	7.5	7.4	7.6	7.5	7.5	7.4	7.6	7.5	7.5	7.5	7.5	7.4
18	7.5	7.4	7.5	7.4	7.5	7.5	7.9	7.6	7.5	7.4	7.5	7.4
19	7.6	7.4	7.4	7.4	7.6	7.4	8.0	7.7	7.4	7.4	7.5	7.3
20	7.6	7.4	7.5	7.4	7.6	7.5	7.8	7.5	7.5	7.4	7.5	7.3
21	7.5	7.3	---	---	7.6	7.5	7.7	7.5	7.8	7.5	7.5	7.3
22	7.4	7.2	---	---	7.7	7.5	7.6	7.4	7.9	7.7	7.5	7.4
23	7.5	7.4	---	---	7.6	7.5	7.6	7.4	7.9	7.8	7.5	7.4
24	7.6	7.4	---	---	7.5	7.4	7.9	7.5	7.8	7.8	7.5	7.5
25	7.6	7.4	---	---	7.4	7.4	7.9	7.7	7.8	7.7	7.6	7.5
26	7.7	7.4	---	---	7.4	7.4	7.9	7.6	7.7	7.6	7.6	7.5
27	7.6	7.3	---	---	7.5	7.4	7.6	7.5	7.6	7.5	7.6	7.4
28	7.6	7.2	---	---	7.5	7.4	7.5	7.4	7.6	7.5	7.4	7.3
29	7.5	7.3	---	---	7.7	7.5	7.6	7.5	---	---	7.4	7.4
30	7.5	7.4	---	---	7.5	7.3	7.8	7.5	---	---	7.5	7.4
31	7.6	7.3	---	---	8.0	7.5	7.9	7.5	---	---	7.5	7.4
MONTH	7.7	7.1	---	---	8.0	7.2	8.0	7.4	7.9	7.3	8.0	7.3

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	7.4	7.6	7.4	7.9	7.7	8.0	7.6	7.8	7.6	7.4	7.1
2	7.6	7.5	7.7	7.6	7.9	7.6	8.0	7.6	7.7	7.4	7.5	7.1
3	7.7	7.5	7.6	7.5	7.8	7.6	7.6	7.5	7.8	7.4	7.6	7.0
4	7.6	7.5	7.7	7.4	7.6	7.4	8.0	7.6	7.8	7.5	7.7	7.3
5	7.5	7.4	7.6	7.4	7.6	7.3	8.0	7.4	7.8	7.3	7.7	7.4
6	7.4	7.3	7.5	7.4	7.7	7.5	8.1	7.7	8.0	7.2	7.6	7.2
7	7.5	7.4	7.5	7.3	7.8	7.3	---	---	8.1	7.6	7.5	6.9
8	7.6	7.4	7.6	7.2	7.5	7.3	7.7	7.3	8.0	7.6	7.6	7.2
9	7.6	7.4	7.5	7.3	7.7	7.5	7.7	7.5	7.9	7.3	7.7	7.4
10	7.6	7.5	7.5	7.4	7.7	7.3	7.8	7.3	7.9	7.5	7.7	7.4
11	7.7	7.5	7.6	7.4	7.6	7.3	7.4	7.2	7.7	7.4	7.5	7.3
12	7.7	7.4	7.6	7.4	7.7	7.5	7.6	7.4	7.5	7.2	7.5	7.3
13	7.7	7.6	7.5	7.4	7.8	7.6	7.9	7.3	7.6	7.3	7.5	7.4
14	7.7	7.7	7.6	7.5	7.8	7.5	7.8	7.4	7.6	7.4	7.6	7.3
15	7.8	7.5	7.6	7.3	7.6	7.4	7.9	7.5	7.6	7.3	7.3	7.2
16	7.7	7.3	7.7	7.5	7.5	7.3	7.9	7.4	7.6	7.2	7.3	7.2
17	7.6	7.4	7.8	7.5	7.5	7.1	7.9	7.0	7.5	7.3	7.3	7.2
18	7.6	7.5	7.8	7.5	7.4	7.3	7.9	7.5	7.6	7.3	7.5	7.3
19	7.6	7.5	7.7	7.5	7.7	7.3	7.9	7.6	7.5	7.2	7.8	7.0
20	7.7	7.4	7.8	7.5	7.4	7.4	7.9	7.7	7.6	7.3	7.2	7.1
21	7.6	7.5	7.8	7.3	7.8	7.6	7.8	7.6	7.4	7.2	7.3	7.1
22	7.7	7.4	7.5	7.4	7.8	7.7	7.7	7.4	7.4	7.3	7.2	7.0
23	7.9	7.5	7.6	7.5	7.8	7.5	7.6	7.4	7.4	7.2	7.4	7.2
24	7.8	7.7	7.7	7.4	7.7	7.4	7.6	7.5	7.5	7.3	7.5	7.3
25	7.7	7.5	8.1	7.6	7.5	7.4	7.5	7.4	7.5	7.2	7.5	7.4
26	7.7	7.5	7.7	7.5	7.6	7.1	7.5	7.4	7.5	7.2	7.5	7.3
27	7.6	7.4	7.7	7.4	7.8	7.6	7.5	7.4	---	---	7.5	7.3
28	7.7	7.3	7.7	7.5	7.9	7.5	7.6	7.4	7.7	7.2	7.4	7.3
29	7.5	7.4	7.6	7.4	7.7	7.5	7.5	7.3	7.8	7.6	7.7	7.1
30	7.6	7.2	7.7	7.4	7.6	7.3	7.6	7.5	7.7	7.4	7.8	7.3
31	---	---	7.8	7.6	---	---	7.6	7.1	7.7	7.0	---	---
MONTH	7.9	7.2	8.1	7.2	7.9	7.1	8.1	7.0	8.1	7.0	7.8	6.9

07052160 WILSON CREEK NEAR BATTLEFIELD, MO.--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.7	.5	2.2	.9	7.7	5.5	9.0	7.2			---	---
2	2.8	.4	2.1	.1	8.3	5.3	10.2	8.0			---	---
3	2.7	.7	5.9	0	7.7	5.0	10.2	7.7			---	---
4	2.6	.6	10.4	3.1	7.4	3.0	7.8	5.6			---	---
5	2.9	.6	10.1	6.8	5.0	1.6	8.3	5.9			---	---
6	1.7	.6	6.9	5.8	4.4	0	9.0	5.8			4.0	4.0
7	2.6	.6	6.3	5.6	4.1	2.4	8.3	3.8			7.1	4.1
8	2.7	.5	5.7	4.2	4.6	2.6	4.7	2.4			7.1	6.4
9	1.0	.3	4.6	4.1	5.5	3.9	6.2	2.3			8.3	6.7
10	1.4	.4	7.3	3.8	6.6	4.2	6.9	.6			8.6	7.1
11	.9	.4	6.8	5.7	8.6	.6	6.7	3.3			13.2	5.7
12	3.2	.4	6.4	5.5	4.5	2.0	9.2	6.5			13.2	10.1
13	2.5	.6	6.6	5.4	4.0	2.1	10.1	7.1			13.1	9.3
14	11.3	.6	5.9	4.1	3.3	1.9	8.2	3.6			9.3	8.0
15	7.0	1.5	4.8	4.0	4.5	2.3	3.9	2.9			8.4	7.6
16	1.9	.9	5.4	4.2	5.1	3.5	3.7	1.8			8.4	7.6
17	2.0	.4	4.5	3.4	6.1	3.6	2.6	.9			8.6	6.8
18	3.2	1.2	5.2	3.4	5.7	2.1	2.2	.5			7.9	6.1
19	2.2	1.2	4.7	3.5	5.7	2.4	2.2	.6			8.6	6.6
20	3.1	1.3	4.6	3.4	5.7	2.8	6.0	2.2			8.6	6.6
21	5.1	1.9	4.9	3.2	4.0	1.0	5.6	4.0			7.0	5.8
22	5.7	1.2	4.4	2.1	4.6	1.4	7.1	5.6			6.5	5.4
23	4.4	1.1	2.1	.9	5.7	2.2	7.2	4.2			6.6	5.6
24	4.5	.9	3.5	1.1	5.7	3.1	4.2	2.9			7.9	5.7
25	3.8	.6	6.0	3.5	10.7	4.4	4.2	3.3			7.0	5.3
26	5.9	.1	6.9	3.7	10.1	6.1	4.5	3.3			6.9	5.3
27	---	---	5.1	2.2	10.9	5.5	5.1	3.6			9.6	4.5
28	---	---	4.3	1.6	10.2	4.7	3.9	2.5			8.4	7.5
29	---	---	3.5	1.8	7.0	1.5	4.3	2.4			8.4	7.8
30	2.9	.4	6.9	3.5	4.8	1.3	7.9	2.5			8.9	7.6
31	5.1	.5	---	---	13.5	0	---	---			9.0	5.9
MONTH	11.3	.1	10.4	0	13.5	0	10.2	.5			13.2	4.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.4	4.0	2.4	1.3	1.0	.1	.6	0	1.1	0	1.9	1.2
2	6.5	4.5	1.7	1.3	2.4	0	.5	0	1.4	0	1.9	.8
3	8.0	5.2	1.9	.7	2.1	0	.5	0	2.9	.2	1.4	.8
4	6.2	2.6	1.9	.7	1.1	0	.6	0	3.6	.2	1.5	.5
5	5.0	2.9	4.0	1.0	4.3	.4	.7	.2	3.5	.3	1.4	1.1
6	6.6	3.0	1.5	.5	.7	0	1.9	.4	5.4	0	1.8	1.4
7	6.6	3.0	1.1	.4	3.3	0	---	---	4.7	0	3.2	1.7
8	7.4	2.9	5.2	.4	3.5	.5	1.6	.2	2.8	0	3.2	2.8
9	7.4	2.1	.6	.4	3.8	.1	.7	.4	2.7	0	3.6	1.1
10	7.9	2.2	.7	.4	6.2	0	2.0	.5	1.8	0	4.7	1.0
11	9.1	2.4	1.2	.4	3.6	.5	2.2	.7	3.3	.3	5.2	1.3
12	9.9	1.9	3.7	.5	2.4	.2	1.5	.6	4.6	.1	5.7	4.0
13	7.4	2.3	4.5	.7	.6	0	4.5	.3	3.1	0	4.9	3.4
14	6.7	3.4	4.0	.4	.5	0	4.5	.3	2.7	0	3.4	2.6
15	9.4	1.4	5.3	.4	2.3	0	4.4	.6	3.4	.8	5.8	2.9
16	7.7	.9	4.8	0	3.8	.7	4.2	.5	3.4	1.1	3.6	1.8
17	7.5	.7	4.5	0	6.7	.8	8.1	.3	2.9	1.1	2.0	.9
18	5.0	.8	4.9	0	4.7	2.9	3.2	.2	2.2	1.0	1.8	.5
19	9.4	.9	6.1	0	4.5	2.9	1.8	0	2.5	1.0	5.2	.1
20	9.9	1.2	4.0	0	4.6	3.0	2.7	0	2.4	1.0	2.7	1.4
21	10.5	1.5	8.4	3.0	3.0	1.8	2.6	.2	1.7	.9	2.9	1.4
22	9.3	.5	3.2	1.2	3.8	2.0	1.9	.3	1.5	.8	3.7	2.1
23	4.9	0	2.1	.1	4.6	2.1	2.0	.2	1.5	.6	2.7	.2
24	7.6	0	.2	0	4.2	2.1	1.6	.2	1.5	.6	2.1	.1
25	---	---	4.5	0	2.8	.3	2.2	.2	1.8	.7	1.9	.2
26	---	---	2.4	1.6	6.9	.3	2.4	.1	2.3	.3	1.8	.1
27	---	---	3.8	1.8	1.8	0	4.2	.1	---	---	1.8	.2
28	---	---	2.2	1.8	2.6	0	5.0	.1	1.0	.6	1.3	.3
29	---	---	4.9	0	2.5	.1	4.6	.1	1.5	.9	5.7	.1
30	4.8	.4	1.1	.2	2.1	.1	3.0	0	1.2	1.0	2.4	.3
31	---	---	.8	.1	---	---	4.0	0	1.9	1.1	---	---
MONTH	10.5	0	8.4	0	6.9	0	8.1	0	5.4	0	5.8	.1

07052160 WILSON CREEK NEAR BATTLEFIELD, MO.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	15.5	18.0	16.0	10.0	9.5	12.0	11.0	12.0	12.0	13.5	12.5
2	17.5	15.5	17.0	15.5	10.5	9.0	11.0	11.0	12.5	12.0	12.5	11.5
3	18.0	15.0	16.5	15.0	10.5	8.5	11.5	10.5	13.0	12.0	12.5	11.5
4	19.0	16.0	15.0	14.0	11.5	8.5	12.0	10.0	13.0	13.0	12.0	12.0
5	19.5	16.5	15.0	13.5	12.0	10.0	11.5	10.0	13.0	11.0	13.0	12.0
6	18.0	16.5	15.0	13.5	12.0	10.5	12.0	10.5	11.0	10.0	13.0	11.5
7	17.0	15.5	14.5	13.5	12.0	11.5	13.0	11.0	11.5	9.5	13.0	12.0
8	18.0	15.0	15.0	14.0	11.5	10.0	13.0	11.5	12.5	10.5	14.0	11.5
9	18.5	15.0	14.5	14.0	11.0	9.5	13.0	11.0	11.0	9.5	12.5	10.0
10	19.0	15.0	14.5	13.0	12.5	10.0	13.0	11.0	11.5	9.5	11.5	8.5
11	19.5	15.5	15.0	14.0	12.5	10.0	11.5	10.0	12.5	11.0	11.0	8.0
12	19.0	17.5	14.0	13.0	13.0	11.5	10.0	9.0	12.0	11.0	10.5	6.5
13	20.0	18.0	14.0	13.0	13.5	12.0	10.0	8.5	12.5	10.5	9.5	5.0
14	19.5	16.0	13.0	12.5	13.0	11.5	11.0	9.0	13.0	11.5	9.5	8.5
15	16.5	15.0	13.5	11.5	12.0	11.5	12.5	10.0	12.5	12.0	11.5	8.0
16	17.0	14.0	13.0	13.0	11.5	11.0	12.0	10.5	12.0	10.5	12.0	9.5
17	18.0	14.5	13.5	13.0	11.5	10.0	11.0	10.5	11.0	10.5	12.0	8.5
18	18.5	15.0	14.0	13.5	11.5	10.0	13.0	11.0	11.0	10.5	12.0	10.5
19	17.5	14.5	15.0	13.5	12.0	10.0	13.0	10.5	12.5	10.0	13.5	11.0
20	17.0	14.0	14.5	13.0	12.0	10.5	11.5	9.5	13.0	10.0	15.0	12.0
21	16.5	13.5	14.5	12.5	12.0	10.0	12.0	10.5	14.0	11.5	15.0	13.0
22	17.5	14.0	15.0	12.5	12.5	10.5	11.5	10.5	13.0	8.5	15.0	13.0
23	17.5	15.0	16.0	14.0	13.5	12.0	12.5	10.0	10.5	9.5	16.0	13.5
24	18.0	15.0	16.5	12.5	13.0	11.0	12.5	11.0	11.0	10.5	14.0	11.5
25	18.0	16.5	13.5	11.5	11.0	10.0	12.0	11.0	12.5	11.0	12.5	10.0
26	18.0	16.5	13.0	11.5	10.0	9.0	12.5	10.5	12.5	11.0	12.5	10.5
27	18.5	16.5	13.0	11.5	11.0	10.0	13.5	11.0	12.5	11.0	11.5	10.0
28	17.5	16.0	13.0	11.0	11.5	10.0	13.5	12.0	13.0	11.5	12.0	10.5
29	18.5	16.0	12.0	9.5	12.0	11.0	14.0	12.5	---	---	11.0	10.0
30	19.5	16.5	10.0	9.5	12.0	11.5	13.0	9.5	---	---	12.5	10.0
31	18.5	17.0	---	---	12.0	9.0	12.0	9.5	---	---	13.5	10.0
MONTH	20.0	13.5	18.0	9.5	13.5	8.5	14.0	8.5	14.0	8.5	16.0	5.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	10.5	18.0	15.0	20.5	17.0	23.0	20.5	23.0	22.0	25.0	22.0
2	14.0	10.5	16.0	15.0	21.5	18.0	23.0	20.5	25.0	22.0	26.0	22.5
3	13.0	9.5	19.0	15.0	22.5	18.5	23.0	21.0	25.0	22.5	26.0	22.0
4	14.5	10.5	19.0	15.0	22.0	19.5	24.0	21.0	25.0	21.5	26.0	22.5
5	15.0	12.0	20.0	16.0	22.5	19.5	24.0	21.0	25.0	20.5	24.5	22.5
6	15.5	12.5	19.5	17.0	23.0	19.5	24.5	21.5	25.0	21.5	24.5	21.0
7	13.5	12.5	21.0	17.5	22.0	19.5	---	---	24.5	21.5	24.5	20.5
8	13.5	12.0	21.0	17.5	22.0	18.5	24.0	21.0	24.5	21.0	24.0	20.5
9	16.5	13.0	21.0	18.0	21.0	19.0	23.5	21.0	24.0	20.0	23.5	21.5
10	16.0	13.0	19.5	17.5	21.0	19.0	22.5	21.0	24.5	20.5	23.5	22.5
11	15.0	12.5	20.0	17.0	19.5	18.0	22.0	19.5	25.5	21.5	23.5	21.5
12	16.0	11.5	20.0	16.5	21.0	17.0	21.0	18.5	26.0	22.0	22.5	18.0
13	13.5	12.5	20.0	16.5	22.5	18.5	22.0	19.0	25.0	22.5	19.5	17.0
14	13.5	12.5	19.0	17.0	23.0	19.5	22.0	18.5	24.0	22.0	18.5	17.5
15	17.0	12.0	20.0	17.0	22.0	19.5	23.0	19.0	24.0	22.5	18.0	17.0
16	19.0	14.0	20.5	15.5	22.0	18.5	23.5	19.5	25.0	22.5	19.5	17.5
17	18.5	15.0	21.0	15.0	21.0	18.5	24.5	20.5	24.5	22.5	21.5	19.0
18	18.5	15.0	21.5	16.0	20.0	18.0	23.0	21.0	25.0	22.0	22.0	20.0
19	18.0	14.0	21.5	17.5	20.5	18.5	24.0	21.0	24.5	22.5	21.5	19.0
20	18.5	13.0	22.0	19.0	21.0	19.0	24.5	21.5	25.0	22.0	19.5	17.5
21	19.0	14.0	21.0	18.5	21.5	19.0	25.0	21.0	26.0	23.5	18.0	17.0
22	19.5	14.5	21.5	18.5	20.5	19.0	25.0	21.5	26.5	23.5	19.0	16.0
23	20.0	15.0	22.0	19.0	20.5	19.0	24.5	22.0	26.0	24.0	19.5	16.0
24	19.5	16.5	21.5	20.0	22.0	19.5	24.0	22.5	25.5	24.0	18.5	17.0
25	19.0	16.5	22.0	19.0	22.5	20.0	24.0	21.5	25.5	23.5	18.5	16.0
26	19.0	16.5	21.0	19.0	22.0	20.0	22.5	21.0	23.5	23.0	19.0	16.0
27	19.5	16.5	21.5	18.5	22.5	20.0	23.5	21.0	23.0	22.5	19.0	15.5
28	18.5	16.5	21.0	19.0	23.0	20.5	25.0	20.5	24.0	22.5	19.0	16.5
29	19.0	15.5	21.5	19.0	23.0	21.0	25.5	22.0	24.5	22.5	19.5	15.5
30	18.0	16.0	22.0	19.0	22.5	20.0	25.5	22.0	24.0	22.5	20.5	17.5
31	---	---	20.5	18.0	---	---	25.0	22.0	24.0	22.0	---	---
MONTH	20.0	9.5	22.0	15.0	23.0	17.0	25.5	18.5	26.5	20.0	26.0	15.5

07052250 JAMES RIVER NEAR BOAZ, MO.

LOCATION.--Lat 37°00'25", long 93°21'50", Christian County, multi-parameter recorder at gaging station on left bank, 150 ft (46 m) downstream from Frazier bridge, 0.2 mi (0.3 km) upstream from Turkey Hollow, and 2 mi (3.2 km) southeast of Boaz.

DRAINAGE AREA.--462 mi² (1,196 km²).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT.										
01...	1445	170	9.4	50	190	66	7.4	14	3.1	232
15...	1200	289	--	--	--	--	--	--	--	200
29...	1440	235	--	--	--	--	--	--	--	224
NOV.										
13...	0830	1660	10	20	10	55	4.2	6.6	1.6	176
25...	1340	333	--	--	--	--	--	--	--	200
DEC.										
12...	0900	549	8.3	30	30	57	5.8	11	2.0	196
30...	1500	241	--	--	--	--	--	--	--	208
JAN.										
08...	0825	569	8.3	40	0	59	5.7	7.8	1.9	196
21...	1530	369	--	--	--	--	--	--	--	200
FEB.										
06...	1045	937	8.9	10	20	53	5.3	6.8	1.9	194
18...	1530	414	--	--	--	--	--	--	--	194
MAR.										
05...	1500	1150	8.3	20	0	57	5.0	6.2	1.7	176
18...	1310	3450	--	--	--	--	--	--	--	140
APR.										
01...	1200	1370	7.1	20	0	54	4.4	4.9	1.6	166
15...	1455	379	--	--	--	--	--	--	--	188
29...	1430	830	--	--	--	--	--	--	--	174
MAY										
15...	1015	240	7.0	30	60	56	6.3	12	2.7	200
27...	1500	241	--	--	--	--	--	--	--	192
JUNE										
13...	0840	294	9.4	60	40	63	4.8	12	2.7	204
23...	1315	357	--	--	--	--	--	--	--	192
JULY										
08...	1500	168	9.3	20	50	60	5.5	12	3.3	198
AUG.										
11...	1430	58	--	--	--	--	--	--	--	109
SEP.										
16...	1405	435	--	--	--	--	--	--	--	158

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT.									
01...	268	.36	123	.5	15	200	5	190	445
15...	--	--	--	--	--	--	--	164	415
29...	--	--	--	--	--	--	--	184	470
NOV.									
13...	196	.26	880	.2	6	150	10	144	333
25...	--	--	--	--	--	--	--	164	410
DEC.									
12...	223	.30	331	.4	12	170	5	161	395
30...	--	--	--	--	--	--	--	171	430
JAN.									
08...	212	.29	326	.3	9	170	10	161	370
21...	--	--	--	--	--	--	--	164	390
FEB.									
06...	202	.27	511	.2	9	150	3	151	355
18...	--	--	--	--	--	--	--	159	340
MAR.									
05...	196	.27	609	.2	8	160	19	144	341
18...	--	--	--	--	--	--	--	115	293
APR.									
01...	178	.24	658	.2	6	150	18	136	326
15...	--	--	--	--	--	--	--	154	340
29...	--	--	--	--	--	--	--	143	320
MAY									
15...	239	.32	157	.4	13	170	2	164	405
27...	--	--	--	--	--	--	--	157	340
JUNE									
13...	236	.32	187	.4	13	180	10	167	408
23...	--	--	--	--	--	--	--	157	380
JULY									
08...	233	.32	106	.4	13	170	10	162	417
AUG.									
11...	394	.54	61.7	--	--	--	--	89	600
SEP.									
16...	191	.26	224	--	--	--	--	130	345

07052250 JAMES RIVER NEAR BOAZ, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: August 1967 to September 1975.

EXTREMES, 1974-75.--Specific conductance: Maximum, 784 micromhos Aug. 28; minimum, 109 micromhos June 18.
PH: Maximum, 8.7 April 11, 12; minimum 6.9 Aug. 31.
Dissloved oxygen: Maximum, 14.6 mg/l April 12; minimum 0.0 mg/l Aug. 19, 20.
Water Temperature: Maximum, 29.5°C July 6, 8, 22; minimum, 4.0°C. Jan. 13.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT.									
01...	0	16	20	.2	2.9	.10	1.1	1.0	1.2
15...	0	--	--	--	--	--	--	--	--
29...	0	--	--	--	--	--	--	--	--
NOV.									
13...	0	8.9	6.7	.1	.00	.22	.12	.17	.17
25...	0	--	--	--	--	--	--	--	--
DEC.									
12...	0	13	17	.1	1.8	.62	.00	.39	.68
30...	0	--	--	--	--	--	--	--	--
JAN.									
08...	0	11	12	.1	1.6	.31	.44	.28	.33
21...	0	--	--	--	--	--	--	--	--
FEB.									
06...	0	10	11	.0	2.2	.22	.38	.17	.23
18...	0	--	--	--	--	--	--	--	--
MAR.									
05...	0	9.5	9.9	.0	2.2	.16	.24	.15	.22
18...	0	--	--	--	--	--	--	--	--
APR.									
01...	0	10	8.1	.1	2.0	.09	.22	.11	.15
15...	0	--	--	--	--	--	--	--	--
29...	0	--	--	--	--	--	--	--	--
MAY									
15...	0	15	15	.1	1.7	.60	.05	.59	.62
27...	0	--	--	--	--	--	--	--	--
JUNE									
13...	0	13	17	.1	1.9	.47	.73	.37	.47
23...	0	--	--	--	--	--	--	--	--
JULY									
08...	0	14	19	.1	1.8	.31	.37	.73	.74
AUG.									
11...	0	45	71	--	--	1.7	.70	--	2.4
SEP.									
16...	0	14	13	--	--	.00	1.4	--	.44

DATE	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	TEMPERATURE (DEG C)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT.									
01...	7.7	3	--	17.0	11	7.8	80	1000	75
15...	7.6	--	--	15.0	--	4.4	44	40000	--
29...	7.6	--	--	18.5	--	4.2	44	1100	--
NOV.									
13...	7.4	5	--	11.0	8	8.1	74	13000	1800
25...	7.8	--	--	10.5	--	8.7	78	4600	--
DEC.									
12...	7.9	3	--	8.0	9	7.0	58	11600	4000
30...	7.8	--	--	9.5	--	9.0	78	2000	--
JAN.									
08...	7.8	0	--	9.0	8	8.3	72	2500	500
21...	8.0	--	--	7.5	--	11.4	95	520	--
FEB.									
06...	7.9	20	--	6.5	7	11.3	92	16000	2400
18...	7.8	--	--	7.5	--	10.0	83	1200	--
MAR.									
05...	7.7	8	--	9.5	6	9.1	79	8500	300
18...	7.4	--	--	10.5	--	9.1	81	210	--
APR.									
01...	7.9	5	--	10.0	11	10.0	88	6600	140
15...	8.4	--	--	14.0	--	13.2	127	840	--
29...	7.8	--	--	19.0	--	7.0	74	1400	--
MAY									
15...	7.5	6	--	18.0	6	4.4	46	600	110
27...	7.7	--	--	22.5	--	4.7	53	580	--
JUNE									
13...	7.5	2	--	20.0	12	4.1	45	1100	300
23...	7.7	--	--	23.0	--	5.4	62	1500	--
JULY									
08...	7.7	9	6	27.0	12	5.5	69	200	200
AUG.									
11...	7.7	--	6	25.5	23	3.4	41	180	--
SEP.									
16...	7.6	--	10	19.0	15	5.5	59	8800	--

WHITE RIVER BASIN

07052250 JAMES RIVER NEAR BOAZ, MO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	471	444	434	398	427	423	371	337	---	---	326	307
2	472	463	408	394	435	426	337	311	---	---	318	310
3	483	472	419	282	444	434	332	324	---	---	330	316
4	497	483	284	206	440	433	341	332	---	---	338	330
5	501	493	291	288	447	434	354	341	359	337	352	338
6	506	498	321	291	474	436	360	350	362	354	359	352
7	508	499	339	321	482	426	367	358	368	354	377	328
8	518	501	348	339	426	390	377	365	369	354	351	340
9	534	519	360	348	394	385	389	372	374	366	359	346
10	531	521	382	365	398	384	441	395	380	364	352	346
11	543	526	321	272	426	380	335	254	380	370	369	352
12	550	535	318	275	395	377	298	247	398	378	394	266
13	607	541	342	319	378	360	317	298	405	388	320	318
14	593	309	361	342	379	368	343	317	399	390	320	312
15	427	339	370	360	381	365	350	333	404	390	350	320
16	440	427	377	368	371	367	368	350	409	400	339	315
17	448	437	381	376	383	369	377	364	434	390	323	287
18	461	445	381	377	389	375	388	374	402	390	290	261
19	477	460	388	381	403	388	392	375	409	396	276	267
20	477	470	397	387	404	399	399	386	419	400	296	254
21	482	475	405	393	410	398	400	387	414	400	308	286
22	491	482	409	396	413	399	409	392	394	270	320	308
23	492	477	408	397	403	396	418	403	290	156	321	316
24	492	475	414	403	410	396	417	404	285	272	332	320
25	496	486	416	405	413	406	440	410	308	285	344	332
26	574	401	418	406	419	412	424	405	347	308	356	344
27	429	379	420	409	424	417	405	399	336	319	376	316
28	432	422	432	416	423	418	415	402	331	308	316	283
29	470	425	430	421	434	414	423	403	---	---	283	263
30	440	421	432	422	436	421	436	423	---	---	286	272
31	497	471	---	---	448	347	---	---	---	---	298	284
MONTH	607	309	434	206	482	347	441	254	434	156	394	247

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	320	298	216	136	465	453	457	420	614	595	468	396
2	351	320	273	216	469	456	466	457	615	589	421	398
3	362	345	297	273	507	454	476	459	610	597	442	420
4	365	349	317	297	512	420	485	471	623	610	512	442
5	367	352	327	311	482	382	485	472	628	607	536	512
6	379	356	343	327	425	389	479	438	607	590	557	535
7	369	361	367	343	441	349	467	441	647	590	580	557
8	374	362	433	365	431	403	449	404	670	612	588	561
9	377	359	379	353	433	403	483	426	639	606	592	561
10	379	343	391	368	456	265	498	483	670	638	739	561
11	387	370	389	378	409	358	520	498	685	670	619	295
12	394	372	394	385	422	404	519	501	688	678	295	137
13	389	375	400	390	432	422	557	509	712	677	241	159
14	391	386	404	392	454	427	561	501	714	686	294	241
15	400	382	420	401	472	443	501	491	752	645	343	294
16	392	377	440	418	457	354	530	499	645	543	381	332
17	399	389	453	438	386	110	551	530	639	242	377	355
18	407	396	451	437	274	109	556	534	527	447	397	377
19	414	397	448	435	337	274	593	556	561	500	477	299
20	408	393	444	263	368	337	607	581	591	541	379	347
21	398	386	482	215	396	368	656	534	593	567	363	347
22	401	390	368	313	393	384	534	509	625	593	359	349
23	408	398	390	360	387	380	553	526	662	625	378	357
24	404	296	406	390	397	380	560	528	669	656	402	378
25	399	115	510	400	416	394	598	544	660	651	418	402
26	297	264	394	365	429	416	613	564	651	600	425	411
27	297	277	398	389	429	415	582	566	783	640	451	425
28	347	297	414	398	470	427	589	539	784	544	467	441
29	321	309	495	395	446	435	555	541	600	513	508	405
30	348	151	422	384	436	416	635	555	717	---	429	376
31	---	---	453	422	---	---	623	585	468	419	---	---
MONTH	408	115	510	136	512	109	656	404	784	242	739	137

07052250 JAMES RIVER NEAR BOAZ, MO.--Continued

PH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER MAX	OCTOBER MIN	NOVEMBER MAX	NOVEMBER MIN	DECEMBER MAX	DECEMBER MIN	JANUARY MAX	JANUARY MIN	FEBRUARY MAX	FEBRUARY MIN	MARCH MAX	MARCH MIN
1	7.7	7.5	7.6	7.5	8.0	7.8	7.9	7.6	---	---	7.8	7.7
2	7.7	7.5	7.7	7.6	8.0	7.8	7.8	7.8	---	---	7.9	7.8
3	7.7	7.6	7.7	7.5	8.0	7.8	7.8	7.8	---	---	7.9	7.8
4	7.7	7.5	7.6	7.5	8.0	7.8	7.9	7.8	---	---	7.9	7.8
5	7.7	7.4	7.6	7.5	8.0	7.8	7.9	7.8	7.9	7.8	7.9	7.8
6	7.7	7.6	7.8	7.6	7.8	7.6	7.9	7.8	8.0	7.8	7.9	7.8
7	7.7	7.6	7.8	7.7	7.7	7.6	7.9	7.8	8.0	7.9	7.8	7.7
8	7.7	7.4	7.8	7.6	8.0	7.7	7.9	7.7	8.0	7.9	7.9	7.8
9	7.7	7.6	7.8	7.7	8.1	7.9	8.0	7.8	8.1	7.9	7.9	7.8
10	7.7	7.6	7.8	7.7	8.0	7.8	8.0	7.7	8.1	7.3	8.1	7.9
11	7.6	7.6	7.8	7.6	7.9	7.7	8.1	7.8	8.0	7.8	8.0	7.9
12	7.6	7.5	7.8	7.7	7.9	7.7	7.9	7.8	7.9	7.8	7.9	7.8
13	7.6	7.6	7.8	7.7	7.9	7.8	8.0	7.9	8.0	7.8	7.9	7.8
14	7.6	7.6	7.8	7.7	7.9	7.8	8.0	7.8	8.0	7.8	7.9	7.8
15	7.7	7.5	7.9	7.7	8.0	7.8	7.9	7.8	7.9	7.7	7.9	7.8
16	7.7	7.6	7.8	7.7	7.9	7.8	8.0	7.8	7.8	7.7	7.9	7.8
17	7.7	7.6	7.8	7.8	8.0	7.8	7.9	7.8	8.0	7.7	7.9	7.8
18	7.7	7.4	7.8	7.8	8.0	7.8	8.0	7.8	8.0	7.8	7.8	7.7
19	7.7	7.4	7.8	7.7	8.0	7.8	7.9	7.8	8.1	7.8	7.8	7.6
20	7.7	7.4	7.8	7.7	8.0	7.7	8.0	7.8	8.2	7.8	7.7	7.6
21	7.7	7.6	7.9	7.7	8.1	7.8	8.0	7.8	8.1	7.7	7.8	7.7
22	7.7	7.4	7.9	7.7	8.1	7.8	8.0	7.7	7.7	7.6	7.9	7.7
23	7.5	7.4	7.8	7.7	7.9	7.7	8.1	7.7	7.9	7.6	7.9	7.8
24	7.7	7.4	7.9	7.8	7.8	7.7	7.8	7.7	7.8	7.7	8.1	7.8
25	7.7	7.6	7.8	7.7	8.2	7.8	8.0	7.6	7.8	7.7	8.1	7.9
26	7.7	7.5	7.8	7.7	8.0	7.9	8.0	7.7	7.8	7.7	8.1	7.9
27	7.7	7.5	7.8	7.7	8.0	7.8	8.2	7.6	7.8	7.7	7.9	7.8
28	7.8	7.6	7.8	7.7	8.1	7.8	7.8	7.7	7.8	7.7	8.0	7.8
29	7.7	7.4	7.9	7.7	7.9	7.7	8.1	7.6	---	---	7.9	7.9
30	7.6	7.4	7.9	7.8	8.0	7.7	8.0	7.7	---	---	8.0	7.9
31	7.6	7.4	---	---	7.7	7.6	---	---	---	---	8.1	7.9
MONTH	7.8	7.4	7.9	7.5	8.2	7.6	8.2	7.6	8.2	7.3	8.1	7.6

DAY	APRIL MAX	APRIL MIN	MAY MAX	MAY MIN	JUNE MAX	JUNE MIN	JULY MAX	JULY MIN	AUGUST MAX	AUGUST MIN	SEPTEMBER MAX	SEPTEMBER MIN
1	8.1	[illegible]	7.7	7.5	7.7	7.6	7.8	7.5	7.7	7.6	7.4	7.0
2	7.9	7.8	7.8	7.6	7.8	7.6	7.8	7.5	7.7	7.5	7.4	7.3
3	8.3	7.9	7.8	7.7	7.7	7.5	7.8	7.5	7.7	7.5	7.7	7.3
4	8.3	7.9	7.8	7.7	7.6	7.5	7.9	7.4	7.7	7.5	7.7	7.3
5	8.4	7.9	7.9	7.7	7.6	7.4	7.8	7.4	7.7	7.5	7.6	7.5
6	8.5	7.9	7.9	7.7	7.6	7.4	7.7	7.4	7.7	7.5	7.8	7.6
7	8.2	7.9	8.0	7.8	7.6	7.5	7.7	7.5	7.7	7.5	7.9	7.7
8	8.3	7.9	7.9	7.7	7.7	7.5	7.9	7.5	7.7	7.5	7.9	7.8
9	8.6	7.8	7.9	7.7	7.7	7.6	7.7	7.5	7.7	7.5	7.8	7.5
10	8.6	7.8	7.9	7.7	7.7	7.4	7.7	7.5	7.7	7.5	7.7	7.5
11	8.7	7.8	8.0	7.7	7.8	7.6	7.7	7.5	7.7	7.5	7.5	7.1
12	8.7	7.9	8.0	7.7	7.8	7.7	7.7	7.5	7.7	7.5	7.8	7.2
13	8.2	7.8	7.9	7.7	7.8	7.7	7.7	7.5	7.7	7.6	7.6	7.3
14	8.1	7.8	7.9	7.6	7.7	7.6	7.7	7.5	7.7	7.6	7.9	7.3
15	8.6	7.8	8.0	7.6	7.7	7.6	8.0	7.6	7.6	7.4	7.9	7.5
16	8.5	7.7	8.0	7.6	7.7	7.6	8.0	7.6	7.5	7.3	7.7	7.5
17	8.4	7.6	7.9	7.5	7.7	7.4	8.2	7.6	7.6	7.4	7.9	7.6
18	8.0	7.6	7.9	7.6	7.5	7.4	7.9	7.6	7.5	7.4	7.9	7.6
19	8.4	7.7	7.9	7.6	7.6	7.4	7.9	7.6	7.5	7.4	7.9	7.7
20	8.4	7.7	7.8	7.4	7.7	7.6	7.7	7.6	7.8	7.5	8.0	7.7
21	8.5	7.7	7.6	7.4	7.7	7.6	7.7	7.5	7.8	7.5	8.0	7.6
22	8.3	7.6	7.7	7.5	7.7	7.7	7.8	7.5	7.9	7.7	7.7	7.6
23	8.1	7.6	7.7	7.6	7.7	7.7	7.7	7.5	7.9	7.7	7.8	7.3
24	8.0	7.7	7.7	7.6	7.7	7.6	7.6	7.6	7.8	7.7	7.7	7.4
25	7.8	7.5	7.7	7.5	7.8	7.6	7.7	7.5	7.8	7.7	7.7	7.5
26	7.6	7.5	7.7	7.5	7.7	7.6	7.7	7.5	7.8	7.6	7.8	7.6
27	7.6	7.5	7.7	7.6	7.8	7.6	7.7	7.5	7.7	7.4	7.8	7.4
28	7.7	7.5	7.7	7.6	7.7	7.5	7.7	7.5	7.5	7.3	7.5	7.3
29	7.9	7.7	7.7	7.5	7.8	7.5	7.6	7.5	7.6	7.2	7.3	7.0
30	7.9	7.7	7.6	7.5	7.9	7.5	7.7	7.5	---	---	7.7	7.3
31	---	---	7.7	7.5	---	---	7.7	7.5	7.3	6.9	---	---
MONTH	8.7	7.5	8.0	7.4	7.9	7.4	8.2	7.4	7.9	6.9	8.0	7.0

07052250 JAMES RIVER NEAR BOAZ, MO.--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.6	3.7	4.8	2.7	10.6	8.3	9.3	7.1	---	---	9.7	8.5
2	5.6	3.3	5.3	4.5	11.2	8.6	9.2	8.9	---	---	9.9	9.2
3	6.0	3.4	7.0	4.0	11.5	8.8	9.2	8.8	---	---	10.1	9.3
4	5.9	3.9	8.5	7.0	11.7	8.9	9.8	8.9	9.3	8.6	9.4	9.0
5	5.8	3.9	8.8	8.5	11.2	8.0	10.2	8.7	9.1	8.4	10.0	8.8
6	4.7	3.9	8.7	8.3	8.0	5.6	10.2	8.7	10.4	8.9	9.4	8.3
7	5.4	3.6	8.5	8.2	6.5	5.3	10.5	8.6	10.9	9.8	8.4	6.6
8	4.9	4.0	8.3	7.8	10.1	6.5	9.6	7.6	10.5	9.1	9.3	9.1
9	4.9	3.6	8.0	7.7	11.3	9.1	10.3	8.0	11.4	9.4	9.2	8.1
10	5.8	3.3	8.0	7.2	11.2	8.9	9.1	6.5	11.2	9.6	10.1	8.9
11	5.2	2.9	9.0	8.0	9.0	7.5	9.8	9.1	10.2	8.9	9.1	8.3
12	4.1	3.0	8.7	8.3	9.3	7.4	10.4	9.8	10.6	8.5	8.7	7.7
13	4.6	2.8	8.5	8.2	9.8	8.0	11.0	10.2	11.3	8.7	8.7	8.3
14	5.7	2.7	8.7	8.3	9.5	8.3	11.1	9.8	10.5	8.3	9.6	8.1
15	5.5	3.9	8.8	8.0	10.1	7.9	10.6	9.2	9.5	7.2	10.5	8.6
16	6.2	4.4	8.4	7.8	9.9	8.3	10.7	8.7	8.8	7.6	10.1	9.0
17	5.8	3.7	8.5	7.9	10.8	8.5	9.5	8.7	10.5	7.3	9.9	9.2
18	4.9	3.1	8.4	8.0	10.6	8.4	10.2	8.0	10.2	8.3	9.3	8.9
19	4.7	2.7	8.0	7.2	11.3	7.8	8.9	7.4	11.9	8.4	9.4	8.6
20	4.9	2.7	8.0	7.0	11.2	8.0	11.1	8.3	12.0	8.6	9.8	8.3
21	6.4	2.8	8.0	7.2	11.2	7.9	11.3	8.3	11.7	8.0	9.4	8.5
22	5.6	3.6	8.0	7.0	11.8	8.1	10.8	7.8	9.7	7.0	9.2	8.2
23	5.2	3.2	7.1	6.3	10.2	7.3	11.7	8.3	10.4	9.7	8.9	7.7
24	5.5	2.9	7.8	6.3	8.0	6.8	8.9	7.6	10.1	9.7	9.8	7.8
25	4.3	2.9	9.2	7.4	11.5	7.6	10.5	6.9	9.8	8.9	10.4	8.2
26	4.3	2.0	9.5	7.7	10.6	8.4	11.4	7.3	9.4	8.6	10.7	8.3
27	4.3	2.1	9.4	7.5	10.6	8.0	11.7	7.3	9.5	8.7	9.0	8.0
28	3.6	2.4	9.5	7.5	11.1	7.7	8.7	6.9	9.5	8.7	9.7	8.4
29	4.3	2.4	8.3	7.3	8.9	6.7	11.2	6.0	---	---	10.1	9.5
30	4.4	2.5	10.2	8.0	9.6	6.0	9.3	6.5	---	---	10.7	9.7
31	3.3	2.5	---	---	7.3	5.6	---	---	---	---	10.7	9.3
MONTH	6.4	2.0	10.2	2.7	11.8	5.3	11.7	6.0	12.0	7.0	10.7	6.6

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.7	8.7	---	---	4.7	2.6	5.4	2.4	3.9	1.0	3.2	1.1
2	9.1	7.9	---	---	4.9	2.6	7.3	2.5	4.2	1.6	3.2	.8
3	12.2	9.1	---	---	4.9	2.4	7.4	2.4	3.8	1.4	3.4	.9
4	12.0	8.8	---	---	5.1	2.6	6.6	2.0	4.4	1.3	3.3	.8
5	11.9	8.3	---	---	4.1	2.2	5.5	1.9	4.8	1.1	2.4	.7
6	12.1	7.9	---	---	5.0	3.2	4.6	1.8	4.1	.9	3.0	.7
7	10.3	7.8	7.7	5.3	4.8	3.5	4.9	2.0	4.2	.8	2.9	1.0
8	11.7	8.1	7.0	4.4	5.6	3.5	5.6	1.6	4.4	.8	2.7	1.2
9	13.6	7.2	7.3	4.0	4.9	3.4	6.4	3.5	4.0	.8	3.5	1.5
10	13.1	6.9	6.7	3.6	4.5	1.8	6.6	3.5	3.9	.8	3.3	1.1
11	13.9	6.9	7.4	3.8	4.7	3.8	6.5	4.0	4.3	1.1	3.3	.8
12	14.6	7.2	7.8	3.7	5.3	4.2	6.6	4.0	4.3	.7	7.7	3.2
13	10.5	6.7	8.5	4.3	5.2	3.9	6.1	3.8	3.6	.7	7.7	6.8
14	10.6	7.1	7.6	4.2	4.9	3.2	6.1	3.3	3.0	.6	6.8	6.5
15	14.0	7.3	8.0	3.5	4.8	2.8	8.0	3.6	2.5	.7	6.7	5.5
16	13.6	6.4	8.0	3.4	5.3	3.1	7.5	2.2	2.2	.6	5.5	5.3
17	12.8	5.4	7.7	3.1	5.8	3.9	9.0	1.9	1.7	.3	5.3	4.5
18	8.9	5.0	7.5	2.9	6.2	5.8	6.8	1.6	1.5	.2	4.6	3.9
19	12.7	5.4	7.1	3.0	5.9	5.4	6.5	1.5	.6	0	4.4	2.9
20	13.0	6.1	6.2	2.8	6.2	5.5	3.1	1.0	2.9	0	5.9	3.5
21	13.0	5.7	5.0	3.5	6.0	5.4	3.2	1.0	3.3	.6	5.9	5.5
22	11.8	5.3	5.2	3.9	6.0	5.5	5.4	1.3	3.0	.5	5.9	5.5
23	9.9	4.4	5.0	3.7	6.2	5.5	4.5	1.7	3.5	.3	5.8	5.3
24	8.7	3.3	4.7	3.3	6.0	5.0	3.5	1.2	2.5	.9	5.7	4.8
25	7.2	4.9	4.1	2.9	6.0	4.3	4.3	1.1	3.0	1.0	5.8	4.8
26	6.9	6.6	4.7	2.9	5.5	3.7	3.6	1.1	---	---	5.8	4.5
27	6.9	6.1	5.1	3.3	5.2	3.0	3.8	1.2	---	---	5.7	4.2
28	6.7	6.2	4.3	3.0	4.3	2.7	4.3	1.4	2.9	.5	5.5	4.0
29	7.6	6.3	4.2	2.6	5.4	2.6	4.1	1.7	3.0	.7	4.7	3.2
30	9.1	6.0	4.2	2.5	5.7	2.7	4.1	1.4	---	---	5.1	3.4
31	---	---	4.1	2.4	---	---	4.4	1.0	3.0	.3	---	---
MONTH	14.6	3.3	8.5	2.4	6.2	1.8	9.0	1.0	4.8	0	7.7	.7

07052250 JAMES RIVER NEAR BOAZ, MO.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	15.0	18.5	16.5	7.0	6.5	9.5	8.0	---	---	10.5	9.0
2	16.5	15.0	18.5	17.5	7.0	6.0	8.0	7.5	---	---	10.0	8.5
3	16.5	14.0	17.5	15.5	6.5	5.0	8.0	7.5	---	---	9.5	8.0
4	17.5	14.5	15.5	13.0	7.0	4.5	7.5	6.5	---	---	9.0	8.5
5	18.5	16.0	13.5	12.5	8.0	6.0	7.5	6.5	10.0	8.0	10.5	8.5
6	17.5	16.5	13.5	12.0	9.5	8.0	8.0	7.0	8.0	6.0	11.0	9.5
7	16.5	15.0	13.0	12.0	9.5	9.0	9.0	7.0	7.0	5.0	11.0	10.0
8	15.5	14.0	13.5	12.5	9.0	7.0	10.0	9.0	7.5	6.0	10.5	9.0
9	16.5	13.5	13.5	12.5	7.0	6.0	10.0	7.5	6.5	4.5	10.0	6.0
10	16.5	13.0	13.5	13.0	8.0	6.0	11.0	9.0	6.5	4.5	8.0	6.0
11	17.5	14.0	13.0	12.5	9.0	8.0	9.0	7.0	8.0	6.5	8.0	7.0
12	17.0	16.5	12.5	12.0	9.5	8.5	7.0	5.0	8.0	7.0	8.0	5.0
13	19.0	16.5	12.0	11.5	9.5	8.0	5.0	4.0	8.0	6.5	7.5	7.0
14	18.5	16.0	11.5	10.0	9.0	8.0	6.0	4.5	9.0	7.5	8.5	6.5
15	16.5	14.5	11.0	9.5	9.0	8.0	7.5	6.0	9.5	9.0	9.0	7.0
16	16.0	13.5	11.0	10.5	8.0	7.0	7.5	6.5	9.0	8.0	10.0	8.5
17	17.5	14.5	11.5	11.0	7.0	6.0	6.5	6.0	8.0	7.0	11.0	9.0
18	18.0	15.5	12.5	11.5	7.5	6.0	8.5	6.5	7.5	7.0	10.5	10.0
19	17.0	15.0	13.5	12.0	8.0	7.0	8.0	6.5	8.5	6.5	11.5	9.5
20	16.5	14.0	13.5	12.0	8.5	7.5	6.5	5.5	8.5	6.0	13.0	10.0
21	16.0	13.5	12.5	11.0	8.0	7.0	7.5	6.0	10.5	8.0	14.0	12.0
22	16.0	13.5	13.5	11.0	9.0	7.0	7.0	6.5	10.5	8.0	14.5	12.5
23	16.5	14.0	15.0	13.0	11.0	9.0	7.5	5.5	7.5	5.0	15.5	13.0
24	17.0	14.5	14.5	11.0	10.5	8.5	8.0	7.0	6.5	5.5	14.5	11.5
25	17.0	15.5	11.0	9.5	8.5	7.0	8.5	7.5	8.0	6.0	11.5	9.5
26	18.0	16.5	10.5	9.0	6.5	6.0	9.0	7.0	9.0	7.0	10.5	9.0
27	18.0	16.5	10.5	9.5	7.5	6.5	9.5	7.5	9.5	7.5	10.5	10.0
28	17.0	16.5	10.5	8.5	8.0	7.0	10.5	9.5	10.0	8.5	10.5	9.5
29	19.0	16.5	9.5	7.0	9.0	8.0	12.0	10.5	---	---	9.5	8.5
30	19.5	17.0	7.0	6.5	9.5	9.0	10.5	10.0	---	---	10.0	7.5
31	19.0	17.5	---	---	9.5	9.0	---	---	---	---	11.0	8.0
MONTH	19.5	13.0	18.5	6.5	11.0	4.5	12.0	4.0	10.5	4.5	15.5	5.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	9.5	16.5	14.0	22.5	19.0	27.0	24.0	26.0	24.5	27.5	23.0
2	13.0	9.5	16.0	15.0	23.5	19.5	27.0	23.5	27.5	24.5	28.5	24.5
3	11.5	8.5	17.0	14.5	24.0	20.5	27.5	24.0	27.5	25.0	28.5	24.5
4	12.5	9.5	18.0	14.5	24.5	21.5	28.5	24.5	28.0	24.5	28.5	25.0
5	13.5	11.0	19.0	16.5	23.0	21.5	29.0	25.0	27.5	23.5	27.0	25.0
6	14.0	11.5	20.5	18.5	24.5	21.0	29.5	25.5	27.0	23.5	25.5	22.5
7	13.5	11.5	22.5	19.5	23.5	21.5	28.5	25.5	26.5	23.5	25.0	21.0
8	12.5	11.0	22.5	20.0	23.0	21.0	29.5	25.5	26.5	23.0	23.5	21.0
9	15.5	12.5	23.0	20.0	23.0	21.0	28.5	25.5	26.0	22.5	23.5	21.0
10	15.0	13.0	22.0	20.5	21.5	20.0	28.0	25.0	26.5	23.0	23.5	22.5
11	14.5	12.0	22.0	19.5	21.5	20.5	26.0	23.0	27.5	24.0	24.0	22.0
12	15.0	11.5	21.5	19.5	22.5	19.5	25.0	21.5	28.0	24.5	25.0	19.0
13	14.0	12.0	21.0	19.0	24.0	20.5	24.5	20.5	27.5	25.0	19.5	18.5
14	12.5	11.5	20.5	19.0	25.0	21.5	24.5	20.0	26.0	24.5	19.5	18.5
15	15.5	11.5	22.0	19.0	24.5	22.0	25.0	21.0	24.5	23.0	19.0	18.0
16	18.0	14.0	22.0	18.0	24.5	21.0	26.0	21.5	25.5	23.0	19.5	18.0
17	18.0	16.0	22.5	18.5	25.0	19.5	27.5	23.0	25.5	23.0	21.5	19.5
18	18.0	16.5	23.5	19.0	22.0	20.0	26.0	24.5	26.5	23.0	22.5	20.5
19	17.5	14.5	25.0	20.5	23.5	21.0	27.0	24.0	26.5	24.5	22.5	20.0
20	16.0	14.0	24.0	20.5	24.5	22.0	26.0	24.0	28.0	24.0	21.5	19.5
21	19.0	15.5	22.0	19.0	25.0	22.0	28.0	24.0	28.5	25.0	20.0	18.0
22	19.5	16.5	23.5	20.5	24.5	22.5	29.5	25.5	28.5	25.5	18.5	16.5
23	21.0	18.0	24.0	22.0	23.5	22.0	29.0	26.0	28.5	26.0	18.5	16.5
24	21.0	19.0	23.0	22.0	24.0	22.0	27.0	25.0	27.5	26.0	18.5	17.0
25	21.5	17.5	23.5	21.0	25.5	23.0	26.5	24.0	27.5	25.0	18.5	16.0
26	20.0	18.5	23.0	21.5	25.5	23.5	25.5	24.0	26.0	24.5	18.0	15.0
27	21.0	19.0	23.5	20.5	26.5	23.5	27.0	23.5	25.0	23.5	18.5	15.0
28	20.5	19.0	22.5	21.5	27.0	24.0	28.0	24.0	25.0	23.0	18.0	16.0
29	20.0	17.5	23.0	20.5	27.0	24.5	28.0	24.5	25.5	23.0	19.0	16.5
30	19.5	15.0	23.5	21.0	27.0	24.5	28.0	25.0	24.0	22.0	20.5	17.5
31	---	---	22.0	20.0	---	---	27.5	24.5	26.0	22.0	---	---
MONTH	21.5	8.5	25.0	14.0	27.0	19.0	29.5	20.0	28.5	22.0	28.5	15.0

07052340 FINLEY CREEK AT RIVERDALE, MO.

LOCATION.--Lat 36°59'10", long 93°17'40", Christian County, at bridge on U.S. Highway 160, 1 mile (1.6 km) southwest of Riverdale, and 0.2 mi (0.3 km) downstream from Hog Creek.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 01...	1345	85	9.2	30	10	49	10	4.2	1.6	184	0	9.1
NOV. 13...	0740	810	9.6	10	0	42	5.5	2.5	1.4	148	0	5.0
DEC. 12...	1030	720	52	10	0	45	7.1	3.2	1.3	160	0	5.6
JAN. 08...	1000	435	8.1	10	0	46	7.1	3.0	1.5	165	0	5.0
FEB. 06...	1200	450	7.6	10	0	46	6.7	3.2	1.2	159	0	5.8
MAR. 05...	1600	400	7.4	10	0	45	6.0	2.9	1.6	152	0	4.7
APR. 01...	1100	690	6.8	20	70	40	6.6	2.9	1.4	144	0	11
MAY 15...	1140	145	7.0	20	30	49	7.0	3.7	2.0	174	0	6.4
JUNE 13...	1000	109	9.3	20	30	51	7.5	3.6	1.7	188	0	5.2
JULY 08...	1610	40	11	0	20	60	4.9	3.5	1.6	196	0	4.3

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT. 01...	160	13	151	328	8.0	0	17.5	4	9.7	101	120	76
NOV. 13...	130	6	121	270	7.8	3	10.5	0	8.8	79	300	500
DEC. 12...	140	10	131	296	8.0	3	7.5	3	9.5	79	220	170
JAN. 08...	140	10	135	291	7.6	0	8.5	13	9.6	82	250	58
FEB. 06...	140	13	130	297	8.1	5	6.0	3	9.6	77	130	42
MAR. 05...	140	12	125	292	7.9	5	9.0	4	9.5	82	12	14
APR. 01...	130	9	118	267	7.9	3	9.0	7	10.5	90	110	30
MAY 15...	150	8	143	314	7.9	1	17.0	6	9.4	97	150	72
JUNE 13...	160	4	154	336	7.8	3	20.0	2	7.9	86	100	230
JULY 08...	170	9	161	350	7.8	3	24.0	3	7.3	86	190	360

07052340 FINLEY CREEK AT RIVERDALE, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: August 1967 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.												
01...	8.2	.1	1.2	.01	.21	.06	.08	187	.25	42.9	.1	5
NOV.												
13...	4.2	.0	1.7	.04	.02	.06	.03	156	.21	341	.1	4
DEC.												
12...	6.3	.0	.01	.02	.03	.06	.04	164	.22	319	.1	5
JAN.												
08...	6.0	.0	2.2	.03	.10	.02	.02	165	.22	194	.1	4
FEB.												
06...	5.8	.0	1.7	.00	.26	.03	.01	169	.23	205	.1	5
MAR.												
05...	5.4	.0	2.0	.00	.09	.00	.01	160	.22	173	.1	4
APR.												
01...	5.6	.1	1.5	.00	.10	.01	.01	156	.21	291	.1	5
MAY												
15...	5.6	.0	1.3	.03	.10	.04	.04	187	.25	73.3	.1	5
JUNE												
13...	6.4	.0	1.3	.01	.21	.04	.06	177	.24	52.1	.1	5
JULY												
08...	6.9	.1	2.1	.03	.27	.05	.04	188	.26	70.3	.1	4

07063050 BLACK RIVER BELOW POPLAR BLUFF, MO.

LOCATION.--Lat 36°38'40", long 90°18'01", Butler County, at bridge on county road 1.5 mi (2.4 km) upstream from State Highway 53, and 10 mi (16.1 km) southeast of Poplar Bluff.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV. 26...	0950	665	7.7	60	50	22	12	2.4	1.4	116	0	7.7
JAN. 28...	0955	1600	7.2	40	60	19	11	2.1	1.3	108	0	11
MAR. 18...	0940	4230	6.3	60	20	15	8.9	1.6	1.2	80	0	8.5
MAY 21...	0945	1240	7.0	80	70	20	11	1.9	1.1	116	0	6.7
JULY 17...	1000	550	7.5	20	20	28	16	2.4	.9	160	0	6.2

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
NOV. 26...	100	9	95	214	7.7	10	9.0	6	9.9	85	<20	1190
JAN. 28...	93	4	89	200	7.7	5	6.0	9	11.0	89	290	75
MAR. 18...	74	8	66	158	7.5	5	6.5	5	10.8	88	30	60
MAY 21...	95	0	95	203	7.6	0	21.0	4	7.3	81	<20	150
JULY 17...	140	5	131	265	8.1	10	25.0	1	5.9	71	225	50

07063050 BLACK RIVER BELOW POPLAR BLUFF, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: July 1969 to July 1975 (discontinued).

REMARKS.--Records of discharge are given for gaging station Black River at Poplar Bluff.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
NOV.												
26...	3.0	.3	.25	.02	.15	.07	.06	114	.16	205	.1	5
JAN.												
29...	2.7	.0	.39	.00	.26	.00	.02	113	.15	480	.1	5
MAR.												
18...	1.8	.1	.24	.01	.16	.00	.02	90	.12	1030	.1	4
MAY												
21...	2.4	.0	.19	.00	.14	.02	.02	112	.15	375	.1	4
JULY												
17...	2.8	.1	.07	.03	.27	.02	.03	137	.19	206	.1	4

07063300 MAIN DITCH NEAR NEELYVILLE, MO.

LOCATION.--Lat 36°33'18", long 90°26'53", Butler County, at bridge on State Highway 142, 4 mi (6.4 km) east of Neelyville.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV.												
26...	0855	32	11	240	950	19	7.1	4.9	5.1	90	0	11
JAN.												
28...	0850	12	18	520	1600	38	13	15	3.0	200	0	12
MAR.												
18...	0850	60	12	240	740	22	8.7	8.7	2.6	110	0	11
MAY												
21...	0900	10	19	80	1800	42	14	12	2.5	214	0	6.0
JULY												
17...	0910	3.8	9.9	60	150	29	14	15	4.1	152	4	4.8

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
NOV.												
26...	77	3	74	208	7.3	40	6.0	22	9.0	73	13600	7300
JAN.												
28...	150	0	164	388	7.4	5	8.5	19	7.6	65	3800	800
MAR.												
18...	91	1	90	230	7.2	50	8.0	18	8.2	69	11800	6800
MAY												
21...	160	0	176	387	7.4	2	20.0	12	6.0	74	95	100
JULY												
17...	130	0	131	324	8.6	10	24.5	40	7.0	83	800	420

07063300 MAIN DITCH NEAR NEELYVILLE, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: July 1969 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
NOV.												
26...	9.9	.1	.42	.55	.85	.68	.95	130	.18	11.4	.4	19
JAN.												
28...	13	.2	.48	1.3	.60	.46	1.1	216	.29	7.00	.5	18
MAR.												
18...	8.6	.1	.37	.41	.99	.51	.55	138	.19	72.4	.4	17
MAY												
21...	11	.2	.01	.00	.61	.07	.37	219	.30	5.97	.4	16
JULY												
17...	14	.4	.03	.57	2.9	.47	.85	191	.26	1.96	.6	19

07068000 CURRENT RIVER AT DONIPHAN, MO.

LOCATION.--Lat 36°37'19", long 90°50'51", in NW¼NW¼ sec.27, T.23 N., R.2 E., Ripley County, temperature recorder at gaging station on right bank 0.5 mi (0.8 km) upstream from U.S. Highway 160, 1 mi (1.6 km) west of Doniphan, 2.5 mi (4.0 km) upstream from Brian Creek, and at mile 51.3 (82.5 km).

DRAINAGE AREA.--2,038 mi² (5,278 km²).

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975 (CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	15.5	14.0	13.5	---	---	9.0	9.0	9.5	9.0	8.0	7.0
2	15.5	15.0	13.5	13.5	---	---	9.0	8.5	9.0	8.5	8.0	7.0
3	15.0	14.5	13.5	13.5	---	---	9.0	8.5	8.5	8.0	7.0	7.0
4	14.5	14.0	13.5	13.0	---	---	8.5	7.0	8.0	8.0	7.0	7.0
5	15.5	14.5	13.0	11.0	6.0	5.5	7.0	7.0	8.0	8.0	7.0	7.0
6	15.5	15.0	11.0	10.5	6.5	6.0	7.0	7.0	8.0	7.0	8.5	7.0
7	15.5	15.5	10.5	10.0	7.0	6.5	8.0	7.0	7.0	6.0	9.0	8.5
8	15.5	15.0	---	---	7.0	6.0	9.0	8.0	6.0	5.5	9.0	8.5
9	15.5	14.0	---	---	6.5	6.0	9.0	9.0	5.5	5.5	8.5	6.0
10	14.5	13.5	---	---	6.0	5.5	10.0	9.0	5.5	5.0	6.0	6.0
11	14.0	13.5	---	---	6.5	6.0	10.0	9.0	5.5	5.0	6.0	6.0
12	14.0	13.5	---	---	7.0	6.5	9.0	8.0	7.0	5.5	6.0	6.0
13	14.5	14.0	---	---	---	---	8.5	8.0	7.0	7.0	6.0	5.5
14	14.5	14.0	---	---	---	---	8.0	8.0	7.0	6.5	5.5	5.0
15	14.0	13.5	10.0	9.0	---	---	8.5	8.0	8.0	7.0	6.0	5.5
16	13.5	12.0	9.0	9.0	---	---	8.5	8.5	8.0	8.0	7.0	6.0
17	13.0	12.0	9.0	9.0	---	---	8.5	8.5	8.0	8.0	8.5	7.0
18	13.0	12.0	9.0	8.5	7.0	7.0	9.5	8.5	8.0	8.0	9.0	8.5
19	13.0	12.0	---	---	8.0	7.0	9.5	9.5	8.0	7.0	9.5	9.0
20	12.0	12.0	---	---	8.0	7.0	9.5	9.0	7.0	7.0	10.0	9.5
21	12.0	11.0	---	---	8.0	8.0	9.0	8.5	8.0	7.0	11.0	10.0
22	11.0	10.5	---	---	8.0	8.0	8.5	8.5	8.0	8.0	11.5	11.0
23	12.0	11.0	---	---	9.0	8.0	8.5	8.5	8.0	6.5	11.5	11.5
24	12.0	11.5	---	---	10.0	9.0	9.0	8.5	6.5	5.5	11.5	11.5
25	12.0	12.0	---	---	10.0	9.0	10.0	9.0	5.5	5.0	11.5	10.0
26	13.0	12.0	---	---	9.0	8.5	10.0	10.0	6.5	5.5	10.0	9.5
27	13.5	13.0	---	---	8.5	8.0	10.0	10.0	7.0	6.5	9.5	9.5
28	13.5	13.5	---	---	8.0	8.0	10.5	10.0	7.0	7.0	9.5	9.0
29	13.5	13.5	---	---	8.5	8.0	11.0	10.5	---	---	9.0	8.5
30	14.0	13.5	---	---	9.0	8.5	11.0	10.5	---	---	8.5	8.0
31	14.0	14.0	---	---	9.0	9.0	10.5	9.5	---	---	8.5	8.0
MONTH	16.0	10.5	---	---	---	---	11.0	7.0	9.5	5.0	11.5	5.0

07068000 CURRENT RIVER AT DONIPHAN, MO.--Continued

PERIOD OF RECORD.--Water temperature: March 1965 to September 1975 (discontinued).

EXTREMES, 1974-75.--Water temperatures: Maximum, 26.0°C Sept. 3; minimum, 5.0°C Feb. 10, 11, 25, Mar 14.

EXTREMES, 1965-75.--Water temperatures: Maximum 27°C on several days during summer months in 1967, 1968, 1969; minimum, 2.5°C Jan. 9, 10, 1970.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL-ALCOHL-ACTUATED THERMOGRAPH)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.5	15.5	15.0	18.0	16.5	23.5	23.0	22.0	21.0	24.5	23.5
2	9.5	9.0	15.0	14.5	18.5	18.0	24.0	23.0	21.0	20.5	25.0	23.5
3	9.5	9.0	14.5	14.5	19.0	18.0	24.0	23.0	21.0	21.0	26.0	24.5
4	9.0	9.0	14.5	14.0	20.5	19.0	24.0	23.5	21.5	20.5	25.5	25.0
5	9.5	9.0	15.0	14.5	20.5	20.0	24.0	23.5	23.0	21.0	25.5	24.5
6	10.0	9.5	15.5	15.0	21.0	20.5	24.0	23.5	23.5	21.5	24.5	23.0
7	10.0	10.0	15.5	15.0	21.0	20.5	24.0	22.0	23.5	21.5	23.0	21.5
8	10.0	10.0	15.0	15.0	20.5	20.0	24.5	23.5	22.0	20.5	22.0	21.0
9	11.5	10.0	15.0	14.5	20.5	18.5	25.0	23.5	22.0	21.0	22.0	21.0
10	12.0	11.5	15.0	14.5	19.0	19.0	25.0	23.5	22.0	21.5	22.0	21.5
11	12.0	11.5	14.5	14.5	20.0	19.0	24.5	23.5	23.5	21.5	22.0	21.0
12	11.5	11.0	15.0	14.5	20.0	19.0	24.0	23.0	24.0	23.0	22.0	21.0
13	11.0	11.0	14.5	14.0	20.0	19.5	23.5	21.5	24.5	23.5	21.0	19.5
14	11.0	10.5	14.5	14.0	21.0	20.0	22.0	21.0	24.0	23.0	19.5	19.0
15	11.0	10.5	15.0	14.5	22.0	21.0	23.0	21.0	23.0	21.5	19.0	19.0
16	13.0	11.0	15.0	14.0	22.0	21.0	24.0	21.5	22.0	21.5	19.0	19.0
17	13.5	13.0	15.0	14.0	21.5	21.0	24.0	22.0	23.0	21.5	20.5	19.0
18	14.5	13.5	16.0	15.0	23.5	21.5	24.0	23.0	23.0	21.5	20.5	20.0
19	14.5	13.5	16.5	15.5	24.0	23.0	23.5	23.0	23.0	21.0	20.0	20.0
20	13.5	13.0	18.0	16.5	24.5	23.5	25.0	23.5	24.0	22.0	20.0	19.5
21	14.0	13.5	18.5	16.5	24.5	23.5	25.0	24.0	24.5	23.5	19.5	19.0
22	14.5	13.5	19.0	17.0	24.0	23.5	24.5	23.0	24.5	23.5	19.0	18.0
23	15.5	14.5	19.5	19.0	23.5	23.0	25.5	24.0	24.5	23.5	18.0	17.0
24	16.0	15.5	19.5	19.0	23.0	21.0	25.0	24.0	24.5	23.5	17.0	16.5
25	16.0	15.5	19.0	18.5	23.5	22.0	24.5	24.0	24.0	23.5	17.0	16.5
26	15.5	15.0	19.5	18.5	23.5	22.0	24.5	23.0	24.0	22.0	17.0	16.5
27	15.0	15.0	19.5	18.5	23.5	21.0	24.5	24.0	22.0	21.5	17.0	16.5
28	15.0	15.0	19.0	18.0	23.5	23.0	25.0	24.0	23.0	21.5	16.5	16.0
29	15.5	15.0	19.0	18.0	23.5	23.0	25.5	24.0	23.5	23.0	16.5	16.5
30	15.5	15.5	19.0	18.0	23.5	23.0	25.0	24.5	23.5	23.0	19.0	16.5
31	---	---	19.0	18.0	---	---	24.5	22.0	24.0	23.0	---	---
MONTH	16.0	8.5	19.5	14.0	24.5	16.5	25.5	21.0	24.5	20.5	26.0	16.0
YEAR	26.0	5.0										

07068050 CURRENT RIVER NEAR DONIPHAN, MO.

LOCATION.--Lat 36°34'24", long 90°51'30", Ripley County, from right bank off County Highway A, 2.6 mi (4.2 km) south of junction of County Highway A and State Highway 21, 3.8 mi (6.1 km) southeast of Doniphan, and 5.2 mi (8.4 km) downstream from gage.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV. 25...	1450	2550	7.5	10	8	30	17	2.0	.4	180	0	4.3
JAN. 27...	1510	2690	7.3	10	20	29	17	1.3	.7	148	0	4.1
MAR. 17...	1530	7210	6.8	20	0	25	14	1.0	1.0	148	0	4.0
MAY 20...	1445	3190	5.4	20	10	30	17	1.6	.9	178	0	3.0
JULY 16...	1530	1830	7.9	10	0	35	22	1.8	1.0	210	0	3.3

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
NOV. 25...	150	0	148	292	8.2	0	10.0	3	10.6	94	88	66
JAN. 27...	140	5	138	282	7.9	0	8.5	2	11.0	94	370	210
MAR. 17...	120	0	121	247	7.9	3	9.0	7	10.0	88	42	48
MAY 20...	150	0	146	282	8.1	0	20.0	1	9.4	102	30	17
JULY 16...	180	6	172	338	8.1	5	22.0	6	9.1	92	6	445

07068050 CURRENT RIVER NEAR DONIPHAN, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: July 1969 to July 1975 (discontinued).

REMARKS.--Records of discharge are given for gaging station, Current River at Doniphan, 5.2 mi (8.4 km) upstream.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
NOV. 25...	2.3	.9	.37	.02	.00	.01	.01	148	.20	1020	.1	3
JAN. 27...	1.9	.0	.46	.00	.13	.00	.02	146	.20	1060	.0	2
MAR. 17...	1.4	.6	.24	.00	.12	.00	.01	131	.18	2550	.0	2
MAY 20...	1.9	.0	.16	.00	.19	.00	.02	155	.21	1340	.1	2
JULY 16...	3.4	.1	.14	.03	.03	.00	.01	174	.24	840	.1	2

07068550 LITTLE BLACK RIVER NEAR NAYLOR, MO.

LOCATION.--Lat 36°31'46", long 90°42'24", Ripley County, at bridge on County Highway KK, 5 mi (9.6 km) southwest of Naylor.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV. 25...	1600	320	7.5	90	42	16	6.8	1.6	1.0	70	0	4.8
JAN. 27...	1600	115	4.7	110	60	19	12	1.8	.7	109	0	4.7
MAR. 17...	1630	335	4.7	120	30	9.2	4.6	1.5	1.1	40	0	5.5
MAY 20...	1545	125	7.0	120	100	19	8.9	1.7	1.0	94	0	3.2
JULY 16...	1620	43	9.3	40	110	30	19	2.1	1.0	180	0	3.4

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
NOV. 25...	68	11	57	134	7.6	40	9.5	14	8.8	77	3600	5200
JAN. 27...	97	8	89	195	7.7	5	6.0	3	11.8	95	14	24
MAR. 17...	42	9	33	86	7.3	20	6.0	9	10.6	85	120	120
MAY 20...	84	7	77	163	7.4	4	21.0	7	5.6	62	120	130
JULY 16...	150	6	148	297	7.6	10	24.0	8	5.4	64	160	310

07068550 LITTLE BLACK RIVER NEAR NAYLOR, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: July 1969 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
NOV. 25...	3.0	.0	.10	.04	.24	.02	.07	79	.11	68.9	.1	5
JAN. 27...	3.8	.0	.06	.00	.28	.00	.02	112	.15	34.8	.1	4
MAR. 17...	1.9	.1	.10	.01	.16	.02	.02	59	.08	53.6	.1	7
MAY 20...	2.2	.0	.07	.04	.15	.02	.04	92	.13	31.1	.1	4
JULY 16...	2.5	.1	.07	.00	.15	.01	.07	151	.21	17.9	.1	3

07068867 FOURCHE RIVER NEAR MIDDLEBROOK, ARK.

LOCATION.--Lat 36°28'50", long 90°56'01", Randolph County, at end of private road 0.9 mi (1.4 km) west of State Highway 115, 0.7 mi (1.1 km) south of Missouri-Arkansas State line, and 1.5 mi (2.4 km) north of Middlebrook.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV. 25...	1350	220	7.5	40	4	36	19	1.9	1.2	202	0	4.8
JAN. 27...	1420	83	6.1	30	20	49	27	1.3	.7	276	0	5.5
MAR. 17...	1450	477	6.5	20	0	27	16	1.1	1.1	160	0	4.5
MAY 20...	1350	53	--	30	30	46	28	1.9	1.1	280	0	4.0
JULY 16...	1430	24	9.8	60	30	52	29	2.0	1.0	310	0	4.7

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
NOV. 25...	170	2	166	318	8.1	20	9.0	21	10.6	91	1400	3100
JAN. 27...	230	7	226	418	8.0	0	7.5	1	11.6	97	16	44
MAR. 17...	130	0	131	264	8.1	20	6.0	13	10.8	87	150	200
MAY 20...	240	5	230	415	8.0	0	24.5	1	7.5	89	70	120
JULY 16...	250	0	254	480	7.8	7	25.0	1	6.2	75	240	260

07068867 FOURCHE RIVER NEAR MIDDLEBROOK, ARK.--Continued

PERIOD OF RECORD.--Chemical analyses: July 1969 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
NOV. 25...	1.9	.0	.17	.04	.08	.01	.03	172	.23	102	.1	2
JAN. 27...	2.4	.4	.17	.00	.08	.00	.00	225	.31	50.4	.0	1
MAR. 17...	1.6	.1	.15	.01	.29	.00	.01	145	.20	107	.0	2
MAY 20...	2.5	--	.11	.00	.14	--	.01	--	--	--	.1	2
JULY 14...	3.1	.1	.05	.04	.06	.00	.01	242	.33	15.7	.1	2

07069170 SPRING RIVER NEAR THAYER, MO.

LOCATION.--Lat 36°30'10", long 91°31'31", Oregon County, at bridge on county road, 0.6 mi (1.0 km) east of U.S. Highway 63, 0.2 mi (0.3 km) north of Missouri-Arkansas State line, and 1.1 mi (1.8 km) southeast of Thayer.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV.												
25...	1140	46	8.7	20	0	52	29	2.0	1.4	301	0	3.9
JAN.												
27...	1200	64	7.4	10	20	59	32	1.5	1.0	312	0	4.0
MAR.												
17...	1210	332	7.3	10	0	43	25	1.3	1.3	244	0	3.8
MAY												
20...	1130	102	7.8	20	20	46	28	1.6	1.4	266	0	2.3
JULY												
16...	1200	49	9.3	30	20	49	29	1.9	1.4	292	0	4.1

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
NOV.												
25...	250	2	247	475	8.3	0	8.5	7	11.2	97	56	88
JAN.												
27...	260	1	256	483	8.3	0	9.0	1	12.2	105	38	66
MAR.												
17...	210	10	200	400	8.0	3	8.0	7	11.0	95	56	92
MAY												
20...	230	12	218	430	8.0	0	19.5	1	8.6	92	210	200
JULY												
16...	240	2	240	450	7.6	5	21.5	2	7.9	89	250	340

07069170 SPRING RIVER NEAR THAYER, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: July 1969 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SODIUM ADSORPTION RATIO	PERCENT SODIUM
NOV.												
25...	3.2	.0	.51	.02	.01	.01	.02	242	.33	38.1	.1	2
JAN.												
27...	2.7	.0	.56	.00	.16	.00	.02	204	.28	35.9	.0	1
MAR.												
17...	2.3	.1	.44	.01	.09	.01	.02	208	.28	186	.0	1
MAY												
20...	2.4	.0	.39	.00	.10	.01	.01	232	.32	63.9	.0	1
JULY												
16...	2.5	.1	.24	.03	.07	.02	.03	236	.32	56.7	.1	2

07071900 ELEVEN POINT RIVER BELOW BARDLEY, MO.

LOCATION.--Lat 36°33'00", long 91°11'35", Oregon County, at bridge on State Highway 142, 6.3 mi (10.1 km) west of Gatewood and 8.7 mi (14.0 km) downstream from gaging station.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV.												
25...	1300	1060	8.5	10	0	37	20	1.4	1.0	204	0	2.4
JAN.												
27...	1315	1190	6.2	10	20	33	19	1.3	1.3	192	0	3.7
MAR.												
17...	1320	2790	7.5	10	0	30	17	1.1	1.3	174	0	2.6
MAY												
20...	1040	1130	6.7	30	10	37	20	1.3	1.2	200	0	2.1
JULY												
16...	1330	1120	6.6	10	0	37	23	1.4	1.0	224	0	2.7

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
NOV.												
25...	170	7	167	340	8.0	0	10.5	6	10.4	93	36	70
JAN.												
27...	160	3	157	310	7.8	0	10.5	2	10.2	91	2	26
MAR.												
17...	150	2	143	280	7.9	3	10.0	8	9.7	86	36	46
MAY												
20...	170	11	164	310	7.9	0	17.5	1	9.2	96	22	38
JULY												
16...	190	3	184	350	7.7	4	18.0	0	8.0	93	30	70

07071900 ELEVEN POINT RIVER BELOW BARDLEY, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: July 1969 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SODIUM ADSORPTION RATIO	PERCENT SODIUM
NOV.												
25...	2.3	.0	.56	.01	.06	.01	.01	172	.23	493	.0	2
JAN.												
27...	2.0	.0	.64	.00	.17	.01	.00	162	.22	504	.0	2
MAR.												
17...	1.6	.2	.52	.01	.27	.00	.01	151	.21	1120	.0	2
MAY												
20...	2.4	.0	.44	.00	.07	.01	.01	162	.22	495	.0	2
JULY												
16...	2.3	.1	.46	.03	.03	.00	.01	179	.24	542	.0	2

07186000 SPRING RIVER NEAR WACO, MO.

LOCATION.--Lat 37°14'45", long 94°33'55", on line between SE¼ sec.7, and NE¼ sec.18, T.29 N., R.33 W., Jasper County, at gaging station on left bank on downstream side of left pier of county highway bridge, 0.8 mi (1.3 km) downstream from Blackberry Creek, 1.5 mi (2.4 km) east of Waco, and 47.6 mi (76.6 km) upstream from mouth.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT.										
02...	0815	224	8.7	50	40	0	2	5	40	59
DEC.										
09...	1000	1910	9.6	190	80	<10	2	4	30	37
FEB.										
03...	1400	5390	8.6	70	50	10	4	4	20	31
APR.										
03...	0815	847	8.0	40	30	0	2	1	30	47
JUNE										
10...	1610	485	10	30	40	10	1	0	40	50

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180° C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.										
02...	.48	.10	.13	203	.28	123	.1	4	170	35
DEC.										
09...	.57	.12	.21	160	.22	825	.3	10	100	26
FEB.										
03...	.73	.08	.18	134	.18	1950	.2	10	90	24
APR.										
03...	.23	.03	.08	169	.23	386	.2	7	130	26
JUNE										
10...	.41	.10	.19	190	.26	249	.2	9	140	15

07186000 SPRING RIVER NEAR WACO, MO.--Continued

DRAINAGE AREA.--1,164 mi² (3,015 km²).

PERIOD OF RECORD.--Chemical analyses: November 1965 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT.										
02...	5.1	3.4	2.6	160	0	30	9.1	.2	.00	.02
DEC.										
09...	3.8	5.9	2.8	96	0	26	9.8	.1	1.6	.13
FEB.										
03...	3.0	4.9	2.9	80	0	23	6.2	.1	1.3	.15
APR.										
03...	3.9	4.9	2.0	126	0	20	6.7	.1	.00	.02
JUNE										
10...	3.2	6.5	2.2	150	0	19	7.5	.1	1.8	.01

DATE	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT.										
02...	131	340	7.9	8	15.5	10	8.0	80	175	500
DEC.										
09...	79	257	7.5	50	4.5	17	9.9	76	5800	10700
FEB.										
03...	66	215	7.4	30	5.0	21	10.0	78	2300	7100
APR.										
03...	103	280	7.7	15	7.0	11	9.9	82	170	66
JUNE										
10...	123	317	7.7	15	22.0	16	6.6	75	300	400

ARKANSAS RIVER BASIN

07186400 CENTER CREEK NEAR CARTERVILLE, MO.

LOCATION.--Lat 37°08'26", long 94°22'37", in NW¼NE¼NW¼ sec.24, T.28 N., R. 32 W., Jasper County, multi-parameter recorder on left bank at gaging station at bridge on County Road HH, 1.5 mi (2.4 km) downstream from Grove Creek, 3 mi (4.8 km) east of Carterville and 17 mi (27.4 km) upstream from mouth.

DRAINAGE AREA.--232 mi² (601 km²).

PERIOD OF RECORD.--Chemical analyses: August 1962 to September 1975 (discontinued).

EXTREMES, 1974-75.--Specific conductance: Maximum, 994 micromhos Feb. 22, minimum, 110 micromhos Nov. 3.
PH: Maximum, 8.4 Apr. 19-21; minimum 6.8 Sept. 11.
Water temperature: Maximum 29.0°C July 7, minimum, 3.0°C Jan. 13-15.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT.										
02...	1220	69	10	20	40	0	3	3	90	55
16...	1530	179	--	--	--	--	--	--	--	--
30...	1030	76	--	--	--	--	--	--	--	--
NOV.										
11...	1315	441	11	10	20	0	4	0	60	44
26...	1000	203	--	--	--	--	--	--	--	--
DEC.										
09...	1220	138	9.4	20	50	<10	6	1	10	67
31...	1025	160	--	--	--	--	--	--	--	--
JAN.										
06...	1240	234	9.0	70	40	0	3	2	20	60
22...	1030	155	--	--	--	--	--	--	--	--
FEB.										
03...	1230	750	10	40	40	10	2	7	30	67
19...	1300	255	--	--	--	--	--	--	--	--
MAR.										
05...	0900	449	8.8	20	20	0	3	3	20	44
18...	1645	2170	--	--	--	--	--	--	--	--
APR.										
04...	0915	410	9.2	10	0	0	2	3	30	67
15...	1710	342	--	--	--	--	--	--	--	--
30...	1030	360	--	--	--	--	--	--	--	--
MAY										
13...	1420	192	7.8	30	30	0	7	4	20	54
28...	1015	125	--	--	--	--	--	--	--	--
JUNE										
10...	1230	206	9.3	60	110	10	3	0	60	67
24...	1000	222	--	--	--	--	--	--	--	--
JULY										
07...	1530	103	10	20	30	50	3	0	0	51

07186400 CENTER CREEK NEAR CARTERVILLE, MO--Continued

EXTREMES, 1963-75.--Specific conductance: Maximum, 1,510 micromhos Apr. 5, 1964; minimum, 74 micromhos Sept. 8, 1970.

PH (1968-75): Maximum, 8.4 Apr. 19-21, 1975; minimum, 6.3 Apr. 15, 1972.

Dissolved oxygen (1968-75): Maximum, 14.7 mg/l Oct. 23, 1974; minimum, 1.7 mg/l July 18, 19, 1970, June 4, 1975.

Water temperatures (1968-75): Maximum, 31.5°C Aug. 3, 5, 1970; minimum, freezing point on several days in January 1970, 1972.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)
OCT.										
02...	3.4	10	1.6	156	0	20	9.1	.4	8.2	.11
14...	--	--	--	132	0	--	--	--	--	--
30...	--	--	--	142	0	--	--	--	--	--
NOV.										
11...	1.9	3.9	1.4	124	0	12	5.2	.2	.00	.63
24...	--	--	--	140	0	--	--	--	--	--
DEC.										
09...	2.8	4.6	1.7	171	0	17	7.3	.2	.00	.76
31...	--	--	--	169	0	--	--	--	--	--
JAN.										
04...	2.9	5.6	1.7	136	0	13	8.6	.2	3.5	.61
22...	--	--	--	144	0	--	--	--	--	--
FEB.										
03...	2.4	4.4	1.8	122	0	13	5.4	.2	.00	.46
19...	--	--	--	140	0	--	--	--	--	--
MAR.										
05...	2.3	3.9	1.4	132	0	12	5.8	.2	3.2	.42
18...	--	--	--	80	0	--	--	--	--	--
APR.										
04...	2.1	4.2	1.5	130	0	11	6.1	.2	2.7	.28
15...	--	--	--	132	0	--	--	--	--	--
30...	--	--	--	140	0	--	--	--	--	--
MAY										
13...	2.8	5.4	1.8	142	0	14	7.8	.2	4.0	.47
28...	--	--	--	144	0	--	--	--	--	--
JUNE										
10...	2.9	4.8	2.1	108	0	18	6.4	.3	4.8	.45
24...	--	--	--	110	0	--	--	--	--	--
JULY										
07...	2.5	6.3	1.5	140	0	14	8.1	.3	3.7	.50

07186400 CENTER CREEK NEAR CARTERVILLE, MO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.										
02...	1.0	.11	.12	221	.30	41.2	.4	12	190	23
16...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
NOV.										
11...	.32	.11	.14	169	.23	292	.2	7	170	16
26...	--	--	--	--	--	--	--	--	--	--
DEC.										
09...	.44	.14	.14	170	.23	195	.2	7	170	30
31...	--	--	--	--	--	--	--	--	--	--
JAN.										
06...	.30	.08	.11	190	.26	114	.2	8	170	20
22...	--	--	--	--	--	--	--	--	--	--
FEB.										
03...	.35	.06	.10	159	.22	322	.2	7	190	17
19...	--	--	--	--	--	--	--	--	--	--
MAR.										
05...	.27	.06	.13	158	.21	205	.2	7	170	11
18...	--	--	--	--	--	--	--	--	--	--
APR.										
04...	.19	.06	.09	160	.22	264	.2	7	170	19
15...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
MAY										
13...	.28	.07	.09	191	.26	99.0	.2	6	160	20
28...	--	--	--	--	--	--	--	--	--	--
JUNE										
10...	.75	.13	.22	180	.24	99.1	.2	7	170	41
24...	--	--	--	--	--	--	--	--	--	--
JULY										
07...	.31	.10	.12	181	.25	50.3	.2	9	160	23

ARKANSAS RIVER BASIN

07186400 CENTER CREEK NEAR CARTERVILLE, MO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TEMPERATURE (DEG C)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT.										
02...	128	370	7.6	3	15.0	3	6.6	65	92	140
16...	108	305	7.6	--	14.5	--	7.2	70	600	--
30...	116	380	7.4	--	18.0	--	5.5	57	170	--
NOV.										
11...	102	272	7.7	7	13.0	6	8.4	79	1400	2100
26...	115	335	7.5	--	8.5	--	7.1	61	44	--
DEC.										
09...	99	300	7.9	10	6.0	0	10.3	83	300	290
31...	121	340	7.8	--	9.5	--	9.1	79	108	--
JAN.										
06...	112	315	7.8	0	7.5	8	9.1	76	24	22
22...	118	330	8.0	--	6.0	--	11.4	92	16	--
FEB.										
03...	100	269	7.6	10	9.5	8	9.4	82	230	820
19...	115	310	7.7	--	8.0	--	10.8	91	30	--
MAR.										
05...	108	270	7.8	8	7.5	6	8.4	70	78	40
19...	66	180	7.6	--	10.5	--	9.8	88	1900	--
APR.										
04...	107	278	7.6	3	8.5	5	10.3	88	36	68
15...	108	280	7.9	--	15.0	--	11.8	117	12	--
30...	113	280	7.8	--	17.0	--	8.0	82	320	--
MAY										
13...	116	305	7.5	0	17.0	1	7.4	76	160	130
29...	118	340	7.7	--	20.5	--	5.6	62	180	--
JUNE										
10...	89	296	7.6	10	21.0	11	5.3	59	1700	12000
24...	90	250	7.5	--	22.0	--	5.4	61	4100	--
JULY										
07...	115	328	7.7	10	20.5	5	5.2	57	72	70

07186400 CENTER CREEK NEAR CARTERVILLE, MO.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	462	288	332	329	---	---	233	180	---	---
2	---	---	808	308	335	326	---	---	265	233	---	---
3	---	---	912	110	337	328	---	---	269	265	---	---
4	---	---	157	114	337	322	---	---	287	269	---	---
5	---	---	212	157	330	328	---	---	---	---	---	---
6	---	---	241	212	928	261	---	---	---	---	---	---
7	---	---	256	241	305	277	---	---	---	---	---	---
8	---	---	273	256	296	280	---	---	---	---	---	---
9	381	374	276	272	309	295	---	---	---	---	---	---
10	380	367	284	274	314	306	308	302	---	---	---	---
11	380	367	275	265	859	273	313	300	---	---	---	---
12	443	365	280	272	273	242	309	288	302	288	---	---
13	425	346	287	279	265	252	303	297	306	297	---	---
14	496	322	294	286	270	263	308	300	307	296	---	---
15	328	299	296	290	268	264	307	300	305	301	---	---
16	328	305	297	288	282	268	312	300	343	301	---	---
17	336	324	296	289	308	277	317	302	314	309	---	---
18	344	330	307	289	310	303	318	301	317	295	180	153
19	345	334	312	299	312	304	319	301	312	295	239	159
20	340	332	313	304	321	305	317	302	317	305	360	239
21	345	328	314	309	327	308	323	305	318	307	372	261
22	352	339	315	310	311	302	326	302	996	193	296	290
23	353	344	315	307	309	278	596	316	231	180	253	241
24	364	348	321	315	302	285	500	302	262	231	263	262
25	366	352	331	320	293	287	365	301	307	260	270	265
26	366	357	333	324	303	289	312	300	---	---	290	238
27	358	351	339	326	311	294	318	301	---	---	527	178
28	393	347	338	322	304	294	323	306	---	---	560	265
29	390	352	332	323	297	290	332	302	---	---	436	376
30	380	349	334	327	299	293	361	233	---	---	461	287
31	564	296	---	---	311	296	233	118	---	---	336	233
MONTH	---	---	912	110	928	242	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	261	250	291	281	334	324	323	310	---	---	306	296
2	287	261	302	288	334	328	321	305	---	---	310	297
3	295	286	302	286	350	314	325	317	---	---	329	307
4	291	275	298	285	327	318	331	314	---	---	330	307
5	284	267	296	285	---	---	329	312	---	---	332	308
6	284	266	299	285	310	290	329	323	---	---	338	325
7	284	267	302	288	428	277	334	322	---	---	333	320
8	286	267	301	291	315	306	343	329	---	---	577	301
9	286	267	297	288	330	295	351	338	798	346	665	312
10	287	269	301	291	421	281	353	340	456	315	334	311
11	294	262	299	292	332	298	354	338	329	315	607	166
12	277	266	293	292	325	318	358	342	336	307	553	167
13	281	269	315	293	328	292	351	338	339	303	851	553
14	288	275	312	301	302	276	347	325	429	320	990	352
15	297	278	313	300	290	282	350	333	399	332	893	268
16	312	293	313	306	296	284	---	---	379	345	303	296
17	304	292	317	304	336	150	---	---	345	319	339	303
18	328	290	316	306	222	164	---	---	327	313	368	332
19	328	308	318	307	247	221	---	---	336	326	444	343
20	320	300	319	310	287	246	---	---	343	330	374	355
21	328	303	323	313	298	282	---	---	343	330	355	342
22	318	300	324	311	296	289	---	---	347	323	365	337
23	319	303	327	321	303	289	---	---	347	336	356	339
24	314	233	328	320	289	241	339	288	340	326	369	356
25	256	142	335	327	282	258	348	318	326	316	381	361
26	265	216	332	324	301	282	364	152	353	311	393	360
27	256	234	337	330	306	287	285	121	349	339	375	350
28	279	256	340	330	304	270	---	---	351	328	392	347
29	280	276	349	334	297	287	---	---	360	343	397	357
30	287	276	342	329	313	296	---	---	358	319	372	350
31	---	---	342	325	---	---	---	---	321	296	---	---
MONTH	328	142	349	281	428	150	---	---	---	---	990	166

07186400 CENTER CREEK NEAR CARTERVILLE, MO.--Continued

PH (UNITS), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER MAX	OCTOBER MIN	NOVEMBER MAX	NOVEMBER MIN	DECEMBER MAX	DECEMBER MIN	JANUARY MAX	JANUARY MIN	FEBRUARY MAX	FEBRUARY MIN	MARCH MAX	MARCH MIN
1	---	---	7.5	7.4	7.7	7.6	---	---	7.9	7.8	---	---
2	---	---	7.6	7.5	7.7	7.6	---	---	7.9	7.9	---	---
3	---	---	7.6	7.3	7.7	7.6	---	---	8.0	7.6	---	---
4	---	---	7.6	7.3	7.7	7.4	---	---	7.7	7.6	---	---
5	---	---	7.7	7.6	7.5	7.3	---	---	---	---	---	---
6	---	---	7.8	7.7	7.5	7.3	---	---	---	---	---	---
7	---	---	7.8	7.8	7.5	7.5	---	---	---	---	---	---
8	---	---	7.8	7.6	7.7	7.5	---	---	---	---	---	---
9	7.6	7.3	7.7	7.7	7.9	7.7	---	---	---	---	---	---
10	7.5	7.3	7.7	7.6	7.9	7.7	7.6	7.3	---	---	---	---
11	7.4	7.2	7.8	7.7	7.7	7.6	7.6	7.2	---	---	---	---
12	7.3	7.2	7.9	7.7	7.7	7.4	7.9	7.5	7.7	7.7	---	---
13	7.3	7.2	8.0	7.9	7.6	7.5	8.0	7.8	7.8	7.6	---	---
14	7.4	7.2	8.0	7.9	7.6	7.5	7.9	7.7	7.7	7.6	---	---
15	7.5	7.4	8.0	7.8	7.7	7.6	7.8	7.5	7.8	7.7	---	---
16	7.6	7.4	7.9	7.8	7.8	7.6	7.6	7.4	7.8	7.7	---	---
17	7.7	7.4	7.9	7.8	7.8	7.6	7.8	7.4	7.8	7.7	---	---
18	7.5	7.4	7.8	7.8	7.7	7.5	7.6	7.4	7.8	7.8	7.6	7.5
19	7.5	7.4	7.9	7.7	7.6	7.5	7.6	7.3	7.9	7.7	7.6	7.4
20	7.6	7.4	7.9	7.8	7.7	7.5	7.6	7.3	7.9	7.5	7.8	7.4
21	7.6	7.3	7.9	7.7	7.7	7.6	7.6	7.3	7.5	7.4	7.8	7.6
22	7.5	7.3	7.8	7.6	7.7	7.5	7.7	7.3	---	---	7.7	7.5
23	7.4	7.3	7.7	7.6	7.8	7.5	7.7	7.6	---	---	7.6	7.5
24	7.4	7.2	7.8	7.6	7.8	7.6	7.8	7.6	---	---	7.8	7.6
25	7.5	7.2	7.7	7.6	8.0	7.8	7.9	7.6	---	---	7.9	7.7
26	7.5	7.4	7.6	7.4	7.9	7.7	7.9	7.7	---	---	7.8	7.7
27	7.5	7.3	7.5	7.4	7.9	7.6	7.8	7.6	---	---	7.7	7.1
28	7.5	7.4	7.5	7.4	7.9	7.7	7.8	7.6	---	---	7.5	7.2
29	7.4	7.3	7.7	7.4	7.8	7.7	8.0	7.6	---	---	7.6	7.5
30	7.5	7.3	7.8	7.6	7.9	7.8	8.0	7.6	---	---	7.6	7.5
31	7.6	7.5	---	---	7.8	7.7	7.8	7.7	---	---	7.7	7.5
MONTH	---	---	8.0	7.3	8.0	7.3	---	---	---	---	---	---

DAY	APRIL MAX	APRIL MIN	MAY MAX	MAY MIN	JUNE MAX	JUNE MIN	JULY MAX	JULY MIN	AUGUST MAX	AUGUST MIN	SEPTEMBER MAX	SEPTEMBER MIN
1	7.7	7.5	8.1	7.8	7.8	7.7	7.6	7.5	7.5	7.4	7.4	7.2
2	7.8	7.6	8.0	7.8	7.8	7.7	7.6	7.5	7.5	7.3	7.4	7.3
3	7.8	7.6	8.1	7.8	7.7	7.5	7.6	7.5	7.5	7.3	7.5	7.3
4	7.7	7.6	8.1	7.8	7.6	7.5	7.6	7.5	7.5	7.3	7.5	7.3
5	7.6	7.5	8.1	7.7	---	---	7.6	7.5	7.6	7.4	7.5	7.4
6	7.7	7.5	8.0	7.7	7.7	7.4	7.7	7.4	7.6	7.5	7.6	7.5
7	7.6	7.4	7.8	7.7	7.7	7.4	7.8	7.5	7.6	7.5	7.6	7.4
8	7.9	7.4	7.8	7.5	7.5	7.4	7.8	7.6	7.7	7.5	7.5	7.4
9	7.9	7.6	7.6	7.5	7.5	7.4	7.8	7.6	7.7	7.5	7.5	7.3
10	7.9	7.4	7.7	7.5	7.8	7.5	7.8	7.6	7.6	7.4	7.4	7.3
11	8.1	7.7	7.8	7.6	7.8	7.6	7.8	7.6	7.5	7.3	7.4	6.8
12	8.1	7.7	7.8	7.6	7.7	7.6	7.9	7.6	7.5	7.4	7.4	7.0
13	7.9	7.6	7.7	7.4	7.7	7.5	7.9	7.6	7.5	7.4	7.4	7.4
14	7.9	7.6	7.5	7.3	7.6	7.5	7.9	7.6	7.6	7.4	7.4	7.4
15	7.9	7.6	7.6	7.3	7.7	7.6	7.7	7.5	7.4	7.3	7.5	7.4
16	8.3	7.8	7.7	7.4	7.6	7.5	---	---	7.4	7.2	7.4	7.4
17	8.3	7.7	7.7	7.5	7.9	7.3	---	---	7.4	7.3	7.6	7.4
18	8.0	7.7	7.7	7.4	7.6	7.4	---	---	7.5	7.3	7.6	7.5
19	8.4	7.8	7.5	7.3	7.6	7.5	---	---	7.5	7.4	7.7	7.6
20	8.4	7.8	7.7	7.3	7.7	7.5	---	---	7.5	7.3	7.7	7.5
21	8.4	7.7	7.8	7.6	7.7	7.5	---	---	7.4	7.2	7.6	7.6
22	8.2	7.7	7.8	7.5	7.7	7.6	---	---	7.4	7.3	7.7	7.6
23	8.0	7.6	7.6	7.5	7.9	7.6	---	---	7.5	7.3	7.8	7.6
24	7.8	7.6	7.6	7.5	7.7	7.4	7.5	7.2	7.4	7.4	7.8	7.7
25	7.8	7.3	7.6	7.5	7.5	7.4	7.7	7.3	7.5	7.4	7.8	7.7
26	7.7	7.4	7.7	7.5	7.6	7.5	7.8	7.5	7.6	7.4	7.8	7.6
27	7.7	7.5	7.7	7.6	7.6	7.4	7.5	7.3	7.6	7.5	7.7	7.5
28	7.7	7.5	7.8	7.6	7.6	7.4	7.5	7.4	7.6	7.4	7.6	7.5
29	7.7	7.7	7.7	7.6	7.6	7.5	7.6	7.4	7.5	7.4	7.6	7.4
30	8.0	7.6	7.8	7.7	7.6	7.5	7.6	7.4	7.5	7.4	7.5	7.4
31	---	---	7.9	7.7	---	---	7.6	7.4	7.4	7.3	---	---
MONTH	8.4	7.3	8.1	7.3	7.9	7.3	---	---	7.7	7.2	7.8	6.8

07186400 CENTER CREEK NEAR CARTERVILLE, MO.--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	6.6	5.9	11.1	8.3	---	---	---	---	---	---
2	---	---	6.8	6.0	12.7	10.4	---	---	---	---	---	---
3	---	---	10.7	6.4	12.7	10.1	---	---	---	---	---	---
4	---	---	11.8	10.5	12.9	9.3	---	---	---	---	---	---
5	---	---	10.6	8.7	12.0	8.7	---	---	---	---	---	---
6	---	---	9.0	8.8	10.8	8.1	---	---	---	---	---	---
7	---	---	9.1	8.8	8.7	8.1	---	---	---	---	---	---
8	---	---	9.3	8.8	10.9	8.6	---	---	---	---	---	---
9	6.8	4.5	9.0	8.5	10.4	9.2	---	---	---	---	---	---
10	6.8	4.4	8.5	7.9	10.1	8.7	9.5	6.5	---	---	---	---
11	6.6	3.8	8.8	8.4	8.9	7.7	8.1	5.7	---	---	---	---
12	4.5	3.7	9.2	8.6	9.9	8.7	10.7	8.1	9.7	8.9	---	---
13	5.0	3.3	9.1	8.9	10.8	9.6	11.7	9.6	10.2	8.7	---	---
14	5.4	3.6	9.7	9.1	10.6	9.1	12.0	10.2	10.8	8.7	---	---
15	6.4	5.4	10.0	9.2	11.8	9.8	11.9	9.8	9.2	8.5	---	---
16	7.5	5.7	9.2	8.8	12.0	10.5	11.7	9.0	10.3	9.2	---	---
17	7.4	5.5	9.2	8.7	11.8	10.4	11.8	8.5	10.3	9.0	---	---
18	6.7	5.1	8.9	7.7	11.1	9.8	11.3	8.3	9.7	8.9	9.0	8.1
19	6.8	5.1	8.3	7.5	11.7	9.4	12.4	7.7	10.9	9.0	9.3	8.0
20	7.4	5.4	9.1	7.7	11.6	9.1	10.8	7.8	11.3	8.7	9.0	8.6
21	7.9	5.4	9.3	8.2	10.8	8.6	12.4	8.4	10.5	8.9	11.2	8.4
22	7.4	4.9	8.3	7.0	10.8	8.6	12.3	6.3	---	---	---	---
23	6.0	4.8	7.7	6.3	11.7	8.2	14.0	5.5	---	---	---	---
24	6.6	4.7	9.0	6.3	9.9	7.9	11.8	3.6	---	---	---	---
25	7.2	4.8	9.1	7.3	13.4	9.1	12.8	4.0	---	---	10.7	8.9
26	7.4	4.6	7.7	6.7	12.4	9.2	14.4	7.1	---	---	10.5	8.5
27	7.3	4.5	8.6	6.6	14.7	9.0	13.0	6.5	---	---	9.5	8.9
28	8.5	6.2	8.9	6.7	13.6	9.9	8.9	5.4	---	---	9.4	6.7
29	8.2	5.7	9.2	7.1	12.6	8.4	13.9	4.3	---	---	9.5	9.0
30	6.3	3.7	10.4	8.0	12.7	8.2	---	---	---	---	9.1	8.4
31	6.0	4.0	---	---	---	---	---	---	---	---	8.9	8.2
MONTH	---	---	11.8	5.9	14.7	7.7	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.8	7.9	10.0	7.7	8.2	4.8	---	---	5.2	3.8	6.7	4.0
2	9.3	8.0	8.6	7.0	6.2	4.2	---	---	5.6	4.1	5.0	3.3
3	10.5	9.1	9.8	7.3	5.3	2.4	---	---	5.7	4.3	5.1	3.3
4	11.0	9.7	9.9	7.5	3.8	1.7	---	---	5.4	2.5	5.1	3.4
5	11.3	9.3	9.9	7.2	---	---	---	---	4.8	2.4	5.2	3.3
6	11.6	9.3	9.9	6.9	5.8	3.2	---	---	4.9	2.6	5.5	3.4
7	9.9	9.1	8.7	6.8	6.8	5.4	---	---	5.5	3.1	5.3	3.2
8	9.9	8.6	8.3	6.4	6.8	4.5	---	---	5.6	3.1	5.8	3.4
9	10.4	8.0	8.4	6.1	6.4	4.3	---	---	5.4	3.2	5.9	4.0
10	10.5	8.4	9.4	7.0	8.7	4.5	---	---	5.7	2.7	5.4	4.0
11	11.0	8.6	9.7	6.8	9.3	5.6	---	---	5.1	2.6	7.5	4.0
12	11.3	8.3	9.7	6.3	6.2	4.2	---	---	5.0	2.4	7.7	5.7
13	10.7	7.9	7.6	6.1	5.5	3.1	---	---	4.6	2.3	6.1	5.3
14	10.8	8.5	7.8	5.0	5.1	2.6	---	---	3.6	2.1	5.8	5.0
15	11.8	7.8	7.9	5.1	4.0	2.0	---	---	4.4	2.3	5.4	5.0
16	12.2	7.3	7.5	4.8	3.8	1.8	---	---	4.3	3.0	6.0	4.9
17	11.6	7.1	7.7	4.4	9.8	3.1	---	---	4.2	3.1	6.2	4.8
18	10.0	6.6	7.4	4.4	8.6	6.0	---	---	5.0	2.4	5.7	4.6
19	11.8	6.4	7.5	4.8	6.9	5.7	---	---	4.9	3.3	6.6	5.6
20	13.2	8.1	6.6	4.0	6.7	4.7	---	---	5.5	3.7	6.6	5.2
21	12.8	7.4	7.9	3.9	6.7	5.3	---	---	5.3	3.9	6.6	5.3
22	11.8	6.5	7.4	3.9	6.8	5.1	---	---	5.4	3.9	6.9	4.9
23	10.8	6.2	6.9	3.4	9.0	4.5	---	---	5.5	3.7	6.8	4.6
24	8.3	5.6	5.8	2.3	6.9	3.8	3.4	2.9	5.7	3.7	6.5	4.9
25	8.1	7.3	4.7	2.3	5.7	3.7	5.1	3.0	6.9	3.6	6.9	5.0
26	7.8	7.2	6.3	2.6	5.6	3.2	6.8	3.2	5.4	2.6	6.9	4.9
27	8.2	7.1	6.9	4.5	6.0	3.3	6.6	2.9	5.2	2.7	6.6	4.5
28	8.0	6.3	7.5	4.8	6.0	3.3	4.8	2.9	5.3	3.6	6.2	4.5
29	8.5	7.1	5.4	2.9	6.6	3.1	4.3	3.6	5.1	3.8	6.4	4.8
30	9.0	6.6	6.5	3.9	7.0	3.4	5.2	3.7	5.1	3.6	6.1	4.2
31	---	---	8.9	4.6	---	---	5.2	3.8	4.8	3.8	---	---
MONTH	13.2	5.6	10.0	2.3	9.8	1.7	---	---	6.9	2.1	7.7	3.2

07186400 CENTER CREEK NEAR CARTERVILLE, MO.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	17.5	16.0	5.5	5.0	---	---	8.0	7.0	---	---
2	---	---	16.5	15.5	6.5	4.5	---	---	8.5	8.0	---	---
3	---	---	15.5	14.5	6.5	4.0	---	---	11.0	8.5	---	---
4	---	---	14.5	11.5	7.0	4.0	---	---	12.0	11.0	---	---
5	---	---	12.5	11.0	9.0	6.0	---	---	---	---	---	---
6	---	---	12.5	11.5	9.5	8.5	---	---	---	---	---	---
7	---	---	12.0	11.5	10.0	9.0	---	---	---	---	---	---
8	---	---	13.0	11.5	9.0	6.5	---	---	---	---	---	---
9	17.0	14.5	13.0	12.5	9.0	5.5	---	---	---	---	---	---
10	17.0	14.0	13.5	13.0	7.5	6.0	10.5	8.0	---	---	---	---
11	18.0	15.0	13.0	12.0	8.5	7.5	11.0	8.5	---	---	---	---
12	18.0	17.5	12.0	11.0	9.0	8.0	8.5	5.5	9.0	8.0	---	---
13	19.5	17.5	11.0	10.0	10.0	8.5	5.5	3.0	9.5	7.0	---	---
14	18.5	16.0	10.0	9.0	9.5	8.5	5.0	3.0	10.5	9.0	---	---
15	16.0	13.5	9.5	8.5	9.0	8.0	6.0	3.0	10.0	8.5	---	---
16	14.5	12.5	10.5	9.5	8.0	7.0	8.5	6.0	8.5	7.5	---	---
17	15.5	13.0	11.0	10.0	8.0	7.0	8.5	6.0	7.5	6.5	---	---
18	16.5	14.0	12.5	11.0	8.5	7.0	7.0	6.0	7.5	7.0	10.5	10.0
19	15.5	13.5	14.0	12.5	8.5	7.0	10.0	6.5	9.0	6.0	13.0	9.0
20	15.0	13.0	13.5	12.0	9.0	8.0	9.0	7.0	10.0	6.5	15.0	12.0
21	15.0	13.0	13.0	11.0	8.5	7.0	7.5	6.0	11.5	9.0	16.0	13.5
22	15.0	12.5	14.0	11.5	10.0	7.5	8.0	6.0	11.5	5.5	15.5	13.5
23	15.0	13.5	17.0	14.0	10.5	9.5	8.0	5.0	6.0	3.5	17.0	14.5
24	16.0	13.5	15.0	11.5	10.5	8.5	8.5	7.0	6.5	3.5	15.0	11.5
25	16.5	15.0	11.5	9.5	8.5	6.5	9.0	7.5	9.0	6.0	11.5	9.0
26	17.0	15.5	10.0	8.5	7.0	6.0	9.5	7.0	---	---	9.5	9.0
27	17.5	16.0	10.0	8.5	8.0	6.0	11.0	7.5	---	---	11.0	9.0
28	17.0	16.0	10.0	8.0	8.5	6.5	10.5	9.5	---	---	9.5	8.5
29	18.5	16.0	9.0	6.0	10.5	8.5	12.0	9.0	---	---	8.5	7.5
30	19.5	17.0	6.0	5.0	10.0	9.5	9.0	7.0	---	---	10.5	8.0
31	18.5	16.5	---	---	10.0	9.5	7.0	5.5	---	---	11.0	8.0
MONTH	---	---	17.5	5.0	10.5	4.0	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	10.0	17.5	15.5	21.0	18.0	26.5	23.0	23.5	22.0	27.5	24.5
2	13.5	9.5	16.5	15.0	21.5	18.0	26.5	23.5	24.5	22.0	28.5	24.5
3	10.0	7.0	17.0	14.5	23.0	19.0	27.0	24.0	25.0	23.0	28.5	25.0
4	12.0	8.5	19.5	15.0	23.5	21.0	27.5	24.5	27.0	23.5	28.0	25.5
5	13.0	10.5	20.0	17.0	---	---	28.0	25.0	26.5	23.0	27.0	25.0
6	14.0	11.5	21.5	18.5	25.0	22.5	28.5	26.0	26.0	22.5	26.0	23.5
7	14.0	12.5	22.0	19.5	23.5	21.5	29.0	26.0	28.0	24.5	25.5	21.5
8	13.5	11.5	22.0	19.5	22.5	21.0	28.5	26.0	26.5	24.5	24.5	21.5
9	16.5	12.5	22.0	19.5	23.0	20.5	28.5	25.5	27.0	23.5	24.5	21.5
10	15.0	13.5	21.0	19.5	22.0	19.5	27.5	25.5	27.0	24.0	24.5	23.0
11	13.5	11.5	21.5	19.0	20.0	18.5	26.0	24.0	27.5	24.5	24.0	21.5
12	14.5	11.0	20.5	18.5	21.0	17.5	24.0	22.0	27.5	24.5	21.5	18.0
13	13.5	12.0	19.5	18.0	23.0	19.0	23.5	21.0	28.0	25.0	18.5	16.5
14	12.5	11.5	19.0	17.0	24.0	20.5	24.0	20.5	26.0	24.5	17.5	16.5
15	15.5	11.0	20.5	17.0	24.0	21.0	24.0	22.0	25.5	24.0	17.0	16.0
16	18.5	14.0	20.0	16.5	24.0	20.5	---	---	26.0	24.0	18.0	16.5
17	19.0	16.5	20.5	17.0	22.0	19.0	---	---	26.5	24.0	19.5	18.0
18	19.5	17.0	21.0	17.5	23.5	20.5	---	---	27.0	24.0	21.0	18.5
19	17.5	14.5	23.5	20.0	24.5	22.0	---	---	27.0	24.5	20.5	19.0
20	17.5	14.0	22.5	21.0	24.5	22.0	---	---	27.5	24.5	19.5	17.0
21	19.0	15.5	23.0	20.0	25.5	22.5	---	---	28.0	25.5	18.0	16.5
22	19.0	16.0	25.0	21.0	24.0	22.5	---	---	28.5	25.5	18.0	15.0
23	20.5	18.0	24.5	22.5	24.0	21.5	---	---	28.5	26.0	18.0	15.0
24	20.5	19.0	23.0	21.5	24.5	22.0	25.0	24.0	28.5	26.0	16.5	15.0
25	20.0	18.0	23.5	20.5	25.0	22.0	25.5	23.5	27.5	25.5	16.5	14.0
26	21.0	19.0	22.5	21.0	25.5	22.5	24.5	21.5	26.5	25.5	16.5	13.5
27	21.5	19.5	23.0	20.0	26.5	23.0	24.5	21.5	26.0	24.5	17.0	14.0
28	20.5	18.5	22.0	21.0	26.5	23.0	25.5	22.0	25.5	24.0	16.0	15.5
29	19.5	17.0	22.5	20.5	26.0	23.5	25.5	22.5	25.5	24.0	17.5	15.0
30	19.0	17.5	21.5	19.5	26.0	23.5	23.5	21.5	26.0	23.5	19.0	16.0
31	---	---	21.0	14.5	---	---	24.0	21.5	27.0	23.5	---	---
MONTH	21.5	7.0	25.0	14.5	26.5	17.5	---	---	28.5	22.0	28.5	13.5

07186480 CENTER CREEK NEAR SMITHFIELD, MO.

LOCATION.--Lat 37°09'20", long 94°36'10", Jasper County, at bridge on county road 1 mi (1.6 km) south of Smithfield.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
OCT.										
02...	0920	95	9.7	40	50	0	1	2	610	75
DEC.										
09...	1510	450	10	80	40	<10	2	0	500	57
FEB.										
03...	1515	1200	10	70	50	0	2	7	490	51
APR.										
03...	0900	892	9.5	30	20	0	1	0	500	54
JUNE										
10...	1510	294	9.5	40	80	20	1	0	360	52

DATE	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.										
02...	.30	.12	.12	291	.40	74.7	.2	8	280	77
DEC.										
09...	.35	.11	.12	232	.32	282	.2	7	180	45
FEB.										
03...	.45	.08	.14	196	.27	636	.1	6	160	39
APR.										
03...	.21	.07	.10	203	.28	489	.2	6	140	52
JUNE										
10...	.90	.12	.24	234	.32	186	.2	8	170	60

07186480 CENTER CREEK NEAR SMITHFIELD, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: October 1968 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)
OCT.										
02...	4.0	7.7	1.5	154	0	67	11	.4	5.5	.01
DEC.										
09...	2.7	5.6	1.7	132	0	45	7.2	.2	.42	.29
FEB.										
03...	2.8	4.8	1.8	122	0	39	5.1	.2	2.8	.20
APR.										
03...	2.5	6.3	1.5	124	0	40	6.1	.2	2.6	.11
JUNE										
10...	2.5	6.4	1.9	124	0	60	5.8	.3	4.7	.02

DATE	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.										
02...	126	450	7.8	3	15.0	3	8.4	83	92	310
DEC.										
09...	108	350	7.8	10	5.5	5	10.2	81	640	300
FEB.										
03...	100	310	7.6	10	9.0	7	8.0	70	490	440
APR.										
03...	102	335	7.5	3	7.0	13	10.4	86	110	54
JUNE										
10...	102	375	7.6	15	20.5	14	6.9	77	2000	4400

07186600 TURKEY CREEK NEAR JOPLIN, MO.

LOCATION.--Lat 37°07'15", long 94°34'55", NE¼SE¼ sec.25, T.28 N., R.34 W., Jasper County, at bridge on Jasper County Highway P, 2.5 mi (4.0 km) upstream from mouth, and 3 mi (4.8 km) northwest of Joplin.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)
OCT.											
02...	1015	16	17	80	170	0	6	7	140	90	4.7
17...	0830	43	--	--	--	--	--	--	--	--	--
30...	1150	36	--	--	--	--	--	--	--	--	--
NOV.											
11...	1445	62	12	30	120	0	6	1	660	82	4.5
26...	1200	50	--	--	--	--	--	--	--	--	--
DEC.											
09...	1410	105	9.8	50	160	<10	1	1	550	86	4.9
31...	1145	60	--	--	--	--	--	--	--	--	--
JAN.											
06...	1440	53	9.3	50	120	20	3	3	550	90	5.7
22...	1315	23	--	--	--	--	--	--	--	--	--
FEB.											
03...	1545	62	11	40	110	10	2	10	700	69	4.2
19...	1430	31	--	--	--	--	--	--	--	--	--
MAR.											
04...	1650	44	9.7	10	110	0	3	5	780	77	4.6
19...	0830	120	--	--	--	--	--	--	--	--	--
APR.											
03...	1015	62	8.7	50	110	0	1	0	880	83	5.5
16...	0845	12	--	--	--	--	--	--	--	--	--
30...	1240	29	--	--	--	--	--	--	--	--	--
MAY											
14...	0815	30	11	90	190	10	6	4	180	86	5.6
28...	1200	3.0	--	--	--	--	--	--	--	--	--
JUNE											
10...	1410	64	10	60	160	10	3	0	230	84	4.4
24...	1215	8.0	--	--	--	--	--	--	--	--	--
JULY											
07...	1405	3.0	11	90	210	0	5	0	60	75	4.9
AUG.											
12...	1030	4.5	--	--	--	--	--	--	--	--	--
SEP.											
16...	1700	15	--	--	--	--	--	--	--	--	--

07186600 TURKEY CREEK NEAR JOPLIN, MO.--Continued

DRAINAGE AREA.41.8 mi^2 (108 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1963 to September 1975.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
OCT.										
02...	31	7.4	224	0	100	27	.5	1.4	1.1	.08
17...	--	--	200	0	--	--	--	--	--	--
30...	--	--	212	0	--	--	--	--	--	--
NOV.										
11...	11	1.9	164	0	88	12	.2	1.4	.33	.44
26...	--	--	186	0	--	--	--	--	--	--
DEC.										
09...	14	3.1	172	0	92	14	.2	1.4	.71	.39
31...	--	--	138	0	--	--	--	--	--	--
JAN.										
06...	14	3.4	172	0	99	17	.2	.00	.71	.79
22...	--	--	192	0	--	--	--	--	--	--
FEB.										
03...	11	2.6	148	0	85	11	.2	.00	.42	.88
19...	--	--	180	0	--	--	--	--	--	--
MAR.										
04...	12	3.0	158	0	94	13	.2	1.2	.49	1.1
19...	--	--	124	0	--	--	--	--	--	--
APR.										
03...	9.6	2.8	152	0	100	12	.2	.92	.21	.60
16...	--	--	176	0	--	--	--	--	--	--
30...	--	--	168	0	--	--	--	--	--	--
MAY										
14...	21	4.6	196	0	98	21	.3	.73	2.0	.50
28...	--	--	198	0	--	--	--	--	--	--
JUNE										
10...	12	3.5	166	0	95	12	.2	.68	.52	.78
24...	--	--	196	0	--	--	--	--	--	--
JULY										
07...	14	4.4	164	0	87	17	.2	.44	1.5	.80
AUG.										
12...	--	--	204	0	98	39	--	--	3.4	1.1
SEP.										
16...	--	--	204	0	97	27	--	--	2.3	1.6

07186600 TURKEY CREEK NEAR JOPLIN, MO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.										
02...	2.3	2.5	413	.56	17.8	.9	21	250	69	184
17...	--	--	--	--	--	--	--	--	--	164
30...	--	--	--	--	--	--	--	--	--	174
NOV.										
11...	.37	.41	326	.44	54.6	.3	10	220	89	135
26...	--	--	--	--	--	--	--	--	--	153
DEC.										
09...	.90	.91	332	.45	94.2	.4	11	240	96	141
31...	--	--	--	--	--	--	--	--	--	113
JAN.										
06...	1.2	1.2	344	.47	69.2	.4	11	250	110	141
22...	--	--	--	--	--	--	--	--	--	157
FEB.										
03...	.36	.51	296	.40	49.6	.3	11	190	68	121
19...	--	--	--	--	--	--	--	--	--	148
MAR.										
04...	.44	.54	306	.42	36.4	.4	11	210	82	130
19...	--	--	--	--	--	--	--	--	--	102
APR.										
03...	.33	.42	320	.44	53.6	.3	8	230	110	125
16...	--	--	--	--	--	--	--	--	--	144
30...	--	--	--	--	--	--	--	--	--	138
MAY										
14...	1.4	1.7	370	.50	30.0	.6	16	240	77	141
28...	--	--	--	--	--	--	--	--	--	162
JUNE										
10...	.74	.87	319	.43	55.1	.3	10	230	92	136
24...	--	--	--	--	--	--	--	--	--	161
JULY										
07...	1.4	1.6	309	.42	2.50	.4	13	210	73	135
AUG.										
12...	--	3.8	393	.53	4.77	--	--	--	--	167
SEP.										
16...	--	2.4	354	.48	14.3	--	--	--	--	167

07186600 TURKEY CREEK NEAR JOPLIN, MO.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.										
02...	655	7.4	0	--	16.0	18	4.6	46	86	1100
17...	640	7.5	--	--	15.0	--	3.6	36	1200	--
30...	640	7.5	--	--	19.5	--	4.8	52	2400	--
NOV.										
11...	505	7.6	7	--	13.5	8	6.9	66	140	60
26...	610	7.6	--	--	10.0	--	7.4	65	50	--
DEC.										
09...	535	7.7	5	--	7.0	11	9.1	75	400	110
31...	345	7.6	--	--	8.0	--	7.8	66	2000	--
JAN.										
06...	575	7.6	3	--	8.0	20	9.0	76	24	16
22...	540	7.7	--	--	6.5	--	9.9	80	12	--
FEB.										
03...	442	7.5	10	--	9.0	10	8.4	72	20000	7400
19...	515	7.7	--	--	8.5	--	8.8	75	8	--
MAR.										
04...	500	7.5	20	--	7.5	14	7.9	66	25	50
19...	370	7.6	--	--	8.0	--	8.7	73	1000	--
APR.										
03...	515	7.4	3	--	6.0	18	9.0	73	1700	50
16...	545	7.5	--	--	14.5	--	6.4	62	120	--
30...	500	7.7	--	--	18.0	--	6.2	65	540	--
MAY										
14...	502	7.4	5	--	18.0	17	3.4	36	100	100
28...	610	7.4	--	--	20.5	--	3.0	33	660	--
JUNE										
10...	510	7.3	5	--	20.0	21	4.2	46	1100	2400
24...	540	7.5	--	--	23.5	--	4.0	46	900	--
JULY										
07...	510	7.8	15	5	27.0	25	3.2	40	100	4500
AUG.										
12...	675	7.4	--	6	24.5	30	4.0	48	8500	--
SEP.										
16...	500	7.4	--	4	20.5	30	2.1	23	340	--

07187560 SHOAL CREEK NEAR GALENA, KANS.

LOCATION.--Lat 37°02'31", long 94°38'34", Cherokee County, at bridge on State Highway 26, 2.5 mi (4.0 km) south of Galena.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
08...	0950	194	9.6	30	10	46	3.6	4.8	1.4	160	0	8.9
DEC.												
10...	1500	500	6.8	10	0	48	2.0	4.1	1.5	140	0	9.1
FEB.												
04...	1600	900	9.9	40	10	44	2.5	3.6	1.4	126	0	9.5
APR.												
02...	1515	1500	4.3	20	0	41	1.6	3.9	1.5	114	0	9.5
JUNE												
11...	1450	449	9.5	70	20	47	2.6	4.2	1.8	138	0	9.4

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
08...	130	0	131	300	7.9	3	14.5	0	8.6	83	44	48
DEC.												
10...	130	17	115	275	8.0	5	4.5	1	10.5	95	36	24
FEB.												
04...	120	17	103	255	7.8	10	9.5	7	9.0	78	480	85
APR.												
02...	110	15	94	248	7.8	3	10.0	0	10.8	96	430	90
JUNE												
11...	130	15	113	266	7.6	4	29.5	9	7.7	86	2400	4700

07187560 SHOAL CREEK NEAR GALENA, KANS.--Continued

PERIOD OF RECORD.--Chemical analyses: October 1968 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT. 08...	6.7	.0	1.8	.05	.32	.15	.15	179	.24	93.8	.2	7
DEC. 10...	6.5	.0	1.8	.03	.16	.12	.10	160	.22	216	.2	6
FEB. 04...	4.5	.0	1.5	.01	.14	.05	.07	149	.20	394	.1	6
APR. 02...	4.9	.1	1.8	.01	.26	.05	.06	138	.19	559	.2	7
JUNE 11...	5.3	.1	1.5	.00	.30	.09	.13	156	.21	189	.2	7

07188500 LOST CREEK AT SENECA, MO.

LOCATION.--Lat 36°50'25", long 94°36'40", Newton County, at bridge on State Highway 43 in Seneca, 0.4 mi (0.6 km) upstream from Little Lost Creek, and 9.5 mi (15.3 km) upstream from mouth.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
08...	1140	10	11	30	10	51	1.9	3.5	1.2	158	0	7.5
DEC.												
11...	0840	20	8.6	40	0	41	1.8	4.0	1.4	120	0	7.4
FEB.												
05...	1020	45	10	10	20	32	1.6	3.1	1.5	104	0	8.4
APR.												
03...	1230	123	4.6	20	0	35	1.5	3.0	1.5	96	0	9.2
JUNE												
12...	0900	35	11	10	10	45	1.2	3.3	1.3	144	0	8.7

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
08...	140	6	130	280	8.0	3	14.0	8	9.3	90	440	480
DEC.												
11...	110	8	98	212	7.8	5	8.5	7	8.8	75	1600	1250
FEB.												
05...	87	1	85	215	7.7	5	8.5	4	11.5	98	160	160
APR.												
03...	94	15	79	214	7.7	0	9.5	9	11.9	103	14	12
JUNE												
12...	120	0	118	286	8.3	2	15.5	6	8.3	83	400	1200

07188500 LOST CREEK AT SENECA, MO.--Continued

DRAINAGE AREA.--42 mi² (109 km²).

PERIOD OF RECORD.--Chemical analyses: August 1967 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.												
08...	4.9	.0	1.6	.02	.38	.03	.02	165	.22	4.66	.1	5
DEC.												
11...	5.2	.0	.00	.03	.16	.04	.05	138	.19	7.45	.2	7
FEB.												
05...	3.5	.0	1.0	.00	.17	.01	.07	124	.17	15.1	.1	7
APR.												
03...	4.3	.1	1.1	.01	.06	.01	.01	123	.17	40.8	.1	6
JUNE												
12...	3.6	.0	1.4	.01	.15	.03	.04	147	.20	13.9	.1	6

07188820 LITTLE SUGAR CREEK AT CAVERNA, MO.

LOCATION.--Lat 36°30'10", long 94°16'30", McDonald County, at bridge on U.S. Highway 71, 0.5 mi (0.8 km) north of Caverna.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 08...	1445	30	10	20	0	55	2.6	5.2	1.9	168	0	7.6
NOV. 12...	1045	385	10	10	20	45	.9	2.9	1.8	140	0	4.6
DEC. 11...	1100	240	7.7	40	0	49	1.6	4.3	1.7	140	0	5.6
JAN. 07...	1140	310	8.7	10	10	46	1.6	3.1	1.9	136	0	5.0
FEB. 05...	1345	215	7.8	10	0	47	1.6	4.8	1.6	142	0	5.2
MAR. 04...	1230	305	7.5	10	50	44	1.8	3.4	1.8	132	0	6.0
APR. 03...	1430	287	7.3	10	0	43	1.5	3.0	1.6	124	0	5.1
MAY 14...	1445	135	7.0	20	20	46	1.4	3.8	2.0	146	0	6.3
JUNE 12...	1040	96	5.4	10	20	48	1.3	4.6	1.7	152	0	5.2
JULY 08...	1050	45	10	10	20	47	1.3	5.2	2.2	165	0	4.7

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT. 08...	150	10	138	303	7.8	3	17.0	1	9.2	93	34	62
NOV. 12...	120	1	115	260	7.6	5	12.0	7	8.2	76	300	980
DEC. 11...	130	14	115	253	7.8	10	9.0	5	8.8	76	75	280
JAN. 07...	120	10	112	263	7.9	3	4.5	6	10.4	89	20	25
FEB. 05...	120	7	116	268	8.0	10	4.0	8	11.8	90	62	30
MAR. 04...	120	9	108	256	7.8	3	7.0	2	9.7	80	170	56
APR. 03...	110	12	102	245	7.8	3	9.0	0	11.2	97	30	30
MAY 14...	120	1	120	268	8.2	1	17.0	3	10.0	103	18	34
JUNE 12...	130	5	125	284	8.0	1	17.5	6	7.9	82	95	170
JULY 08...	120	0	135	294	8.3	7	24.5	14	6.1	73	94	320

07188820 LITTLE SUGAR CREEK AT CAVERNA, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: August 1967 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT.												
08...	7.2	.1	.00	.02	.29	.11	.12	175	.24	14.2	.2	7
NOV.												
12...	3.8	.0	1.5	.06	.08	.10	.10	155	.21	161	.1	5
DEC.												
11...	5.0	.0	1.4	.03	.19	.13	.17	150	.20	97.3	.2	7
JAN.												
07...	4.5	.0	1.6	.01	.10	.08	.10	146	.20	122	.1	5
FEB.												
05...	7.0	.0	1.6	.00	.34	.04	.09	157	.21	91.2	.2	8
MAR.												
04...	4.7	.0	1.5	.01	.10	.06	.06	142	.19	117	.1	6
APR.												
03...	4.4	.0	1.4	.01	.04	.05	.07	143	.19	111	.1	5
MAY												
14...	5.5	.0	1.1	.00	.06	.09	.10	157	.21	57.3	.2	6
JUNE												
12...	4.9	.0	1.2	.00	.08	.11	.13	155	.21	40.2	.2	7
JULY												
08...	6.7	.1	.62	.14	.32	.12	.16	163	.22	19.4	.2	8

07189000 ELK RIVER NEAR TIFF CITY, MO.

LOCATION.--Lat 30°38', long 94°35', NE¼ sec.22, T.22 N., R.34 W., McDonald County, at gaging station on downstream side of right pier of bridge on State Highway 43, 0.8 mi (1.3 km) downstream from Blackfoot Branch, 2.8 mi (4.5 km) upstream from Buffalo Creek, 3 mi (4.8 km) southeast of Tiff City, and at mile 15.8 (25.4 km).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
08...	1245	650	10	50	0	52	3.7	3.3	1.6	144	0	6.6
NOV.												
12...	0940	4260	10	20	0	42	1.9	2.5	1.4	136	0	4.8
DEC.												
11...	0940	1550	7.5	20	0	45	2.3	3.0	1.2	144	0	6.1
JAN.												
07...	1020	1740	8.3	60	0	44	2.4	2.5	1.2	140	0	5.3
FEB.												
05...	1130	1710	8.1	10	10	47	2.4	2.8	1.4	144	0	5.5
MAR.												
04...	1340	2390	7.9	40	0	41	2.3	2.6	1.5	130	0	6.2
APR.												
03...	1330	2430	7.7	10	0	40	2.2	2.5	1.4	124	0	5.4
MAY												
14...	1145	880	5.8	20	10	45	2.5	3.1	1.8	140	0	7.3
JUNE												
12...	0920	776	9.6	30	10	48	2.3	3.3	1.6	156	0	4.6
JULY												
08...	0930	910	12	20	0	42	1.8	2.9	2.2	134	0	4.3

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.												
08...	150	11	135	292	7.9	3	17.0	0	7.3	75	24	32
NOV.												
12...	110	1	112	243	7.8	5	12.0	1	8.2	76	340	980
DEC.												
11...	120	4	118	254	7.9	0	7.5	3	9.0	75	1520	1280
JAN.												
07...	120	5	115	257	7.8	0	7.5	7	9.6	80	10	34
FEB.												
05...	130	9	118	258	8.0	5	8.0	0	11.2	96	40	10
MAR.												
04...	110	5	107	250	7.9	5	7.0	3	9.8	81	18	22
APR.												
03...	110	7	102	235	7.7	3	8.5	4	11.0	96	20	14
MAY												
14...	120	6	115	253	8.1	2	17.5	4	9.7	101	32	82
JUNE												
12...	130	1	128	275	7.9	1	19.0	3	7.4	79	66	140
JULY												
08...	110	2	110	246	7.7	15	24.5	8	5.4	66	160	570

07189000 ELK RIVER NEAR TIFF CITY, MO.--Continued

DRAINAGE AREA.--872 mi² (2,258 km²).

PERIOD OF RECORD.--Chemical analyses: August 1962 to June 1963; November 1965 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM AD-SORP-TION RATIO	PERCENT SODIUM
OCT. 08...	4.8	.1	.94	.02	.16	.02	.02	167	.23	293	.1	5
NOV. 12...	3.0	.0	1.2	.03	.01	.07	.08	146	.20	1690	.1	5
DEC. 11...	4.1	.0	1.2	.06	.09	.00	.02	150	.21	562	.1	5
JAN. 07...	4.2	.0	.61	.01	.13	.02	.03	146	.20	687	.1	4
FEB. 05...	3.5	.0	1.2	.00	.10	.02	.02	150	.20	693	.1	5
MAR. 06...	3.6	.0	1.1	.00	.10	.01	.04	136	.19	478	.1	5
APR. 03...	3.4	.1	.95	.01	.02	.01	.02	132	.18	846	.1	5
MAY 14...	5.0	.0	.62	.01	.03	.02	.04	161	.22	393	.1	5
JUNE 12...	3.9	.0	.92	.02	.14	.03	.04	154	.21	323	.1	5
JULY 08...	4.2	.1	1.1	.03	.27	.06	.11	139	.19	362	.1	5

07189100 BUFFALO CREEK AT TIFF CITY, MO.

LOCATION.--Lat 36°40'15", long 90°36'15", McDonald County, at bridge on State Highway 76, 0.5 mi (0.8 km) east of Tiff City.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NOV. 12...	0900	75	11	10	0	41	.5	3.4	1.8	122	0	6.9
JAN. 07...	0415	193	4.5	20	0	43	1.5	3.8	1.6	128	0	7.9
MAR. 04...	1430	55	8.3	10	0	37	1.5	3.2	1.4	112	0	6.3
MAY 14...	1045	39	9.0	20	10	44	1.0	4.3	2.1	138	0	9.6
JULY 08...	0945	21	13	0	0	47	1.4	4.0	1.9	147	0	5.7

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
NOV. 12...	100	4	100	230	7.7	2	12.0	4	8.4	78	70	420
JAN. 07...	110	9	105	251	7.8	3	8.0	2	10.9	92	34	19
MAR. 04...	99	7	92	217	7.7	3	7.5	2	9.7	81	8	8
MAY 14...	110	1	113	242	7.8	0	15.5	6	9.4	94	20	28
JULY 08...	120	3	121	278	7.6	5	21.0	5	6.4	71	240	540

07189100 BUFFALO CREEK AT TIFF CITY, MO.--Continued

PERIOD OF RECORD.--Chemical analyses: August 1967 to July 1975 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DIS-SOL-VED-PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESIDUE AT 180° C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SODIUM ADSORPTION RATIO	PERCENT SODIUM
NOV.												
12...	4.2	.0	.00	.09	.01	.06	.04	143	.19	29.0	.1	6
JAN.												
07...	6.7	.0	1.2	.04	.08	.01	.01	145	.20	40.4	.2	7
MAR.												
04...	4.5	.0	1.2	.00	.04	.01	.02	126	.17	18.7	.1	7
MAY												
14...	7.2	.0	.98	.01	.13	.02	.05	158	.21	16.6	.2	7
JULY												
08...	6.5	.1	.90	.02	.10	.03	.04	155	.21	8.79	.2	6

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-CHARGE (CFS)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)
MERAMEC RIVER BASIN											
07013050 - CROOKED CREEK NEAR DILLARD, MO. (LAT 37 42 40 LONG 091 11 50)											
[1]OCT., 1974											
30...	1.9	9	0	3	50	2	4.0	1.5	60	16	.10
JAN., 1975											
06...	8.5	20	1	12	20	7	6.9	1.7	85	14	.40
APR.											
21...	6.2	10	1	2	0	5	3.2	1.6	22	3.0	.10
JULY											
20...	3.9	0	1	15	0	5	5.5	1.9	170	6.2	<.10
07013100 - MUZZAM CREEK AT DILLARD, MO. (LAT 37 44 20 LONG 091 12 10)											
[1]OCT., 1974											
30...	30	0	0	1	20	0	2.1	.8	10	15	.20
JAN., 1975											
06...	67	10	1	4	6	1	2.7	1.0	15	6.0	.30
APR.											
21...	50	10	1	2	0	0	1.8	1.2	7.0	2.3	.10
JULY											
20...	30	0	1	15	0	2	2.3	1.2	9.0	4.1	<.10
07013200 - MUZZAM CREEK NEAR DILLARD, MO. (LAT 37 46 40 LONG 091 10 00)											
[1]OCT., 1974											
31...	30	0	0	3	20	0	2.2	.8	10	13	.20
JAN., 1975											
06...	72	0	1	3	6	0	2.7	1.0	12	8.0	.30
APR.											
21...	71	0	2	2	0	0	2.2	1.1	7.0	3.1	.10
JULY											
20...	32	30	1	16	10	2	2.3	1.3	8.0	4.2	.16
07014050 - COURTOIS CREEK AT COURTOIS, MO. (LAT 37 45 50 LONG 090 04 00)											
[1]OCT., 1974											
31...	4.7	10	0	2	40	0	2.1	.7	9.0	16	.20
JAN., 1975											
06...	19	20	1	2	0	0	1.3	.7	8.0	7.0	.20
APR.											
21...	11	0	4	2	0	0	1.7	1.2	5.0	2.3	.10
JULY											
20...	8.2	0	1	8	0	1	1.8	.9	4.0	3.1	<.10
07014060 - INDIAN CREEK AT COURTOIS, MO. (LAT 37 46 00 LONG 091 04 30)											
[1]OCT., 1974											
31...	14	10	0	7	40	0	18	3.6	270	38	.30
JAN., 1975											
06...	19	70	1	4	10	0	9.0	1.5	30	13	.20
APR.											
21...	13	30	2	4	0	0	9.2	2.2	96	14	.20
JULY											
20...	12	10	2	9	0	1	13	2.7	85	1.8	<.10
07014550 - INDIAN CREEK NEAR ANTHONIES MILL, MO. (LAT 38 07 20 LONG 090 50 00)											
[1]OCT., 1974											
31...	13	0	0	3	30	0	6.5	1.4	32	24	.10
JAN., 1975											
08...	36	10	3	14	10	2	6.4	1.5	21	12	.10
APR.											
23...	211	10	1	2	0	0	2.2	1.3	18	3.0	.10
JULY											
30...	9.6	0	0	8	0	1	6.5	1.9	23	10	<.10

[1] See footnote at end of table page 357.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	PHOS-PHATE (PO4) (MG/L)	HARD-NESS (CA,MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
MERAMEC RIVER BASIN--Continued											
07013050 - CROOKED CREEK NEAR DILLARD, MO. (LAT 37 42 40 LONG 091 11 50)											
[1]OCT., 1974 30...	<.10	<.02	.02	246	204	480	8.1	18.0	9.8	101	4
JAN., 1975 06...	.10	<.02	<.02	234	130	470	7.6	7.0	12.5	103	1
APR. 21...	<.10	<.02	.07	208	172	375	6.2	17.0	10.1	104	4
JULY 28...	<.10	.01	.03	252	188	540	8.1	26.0	9.8	120	11
07013100 - HUZZAH CREEK AT DILLARD, MO. (LAT 37 44 20 LONG 091 12 10)											
[1]OCT., 1974 30...	<.10	<.02	30	230	218	410	8.2	18.0	10.5	109	3
JAN., 1975 06...	.10	<.02	<.02	212	182	370	7.9	6.0	13.5	109	<1
APR. 21...	<.10	<.02	.08	192	190	400	8.2	16.0	11.0	111	<1
JULY 28...	<.10	.01	.02	208	210	420	8.1	27.0	9.7	121	0
07013200 - HUZZAH CREEK NEAR DILLARD, MO. (LAT 37 46 40 LONG 091 10 00)											
[1]OCT., 1974 31...	.10	<.02	.02	242	232	420	8.1	17.0	8.2	84	6
JAN., 1975 06...	.10	<.02	<.02	208	188	380	7.7	5.0	12.4	97	<1
APR. 21...	<.10	<.02	.11	196	198	380	7.5	14.0	10.3	99	<1
JULY 28...	<.10	.01	.02	208	220	460	7.9	24.0	7.0	82	5
07014050 - COURTOIS CREEK AT COURTOIS, MO. (LAT 37 45 50 LONG 090 04 00)											
[1]OCT., 1974 31...	<.10	.03	.05	196	188	360	8.1	17.0	9.4	96	4
JAN., 1975 06...	.10	<.02	<.02	138	124	240	7.7	6.0	12.9	104	1
APR. 21...	<.10	<.02	.14	178	164	310	8.0	15.0	11.0	108	<1
JULY 28...	<.10	.02	.02	170	170	340	7.9	24.0	9.1	107	7
07014060 - INDIAN CREEK AT COURTOIS, MO. (LAT 37 46 00 LONG 091 04 30)											
[1]OCT., 1974 31...	.10	<.02	.02	304	200	610	8.1	18.0	8.5	89	5
JAN., 1975 06...	.10	<.02	<.02	228	190	450	7.7	5.0	12.6	98	2
APR. 21...	<.10	<.02	.09	254	190	500	8.2	15.0	10.3	102	<1
JULY 28...	<.10	.01	.04	230	174	550	7.8	25.0	7.8	94	13
07014550 - INDIAN CREEK NEAR ANTHONIES MILL, MO. (LAT 38 07 20 LONG 090 58 00)											
[1]OCT., 1974 31...	<.10	.02	.02	268	232	520	8.2	18.0	11.2	116	3
JAN., 1975 08...	.10	<.02	<.02	246	210	420	7.5	8.0	12.8	108	<1
APR. 23...	<.10	.05	.12	168	156	310	8.0	15.0	9.6	95	3
JULY 30...	<.10	.01	.04	240	226	500	8.3	25.0	10.3	124	1

LOWER MISSISSIPPI RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	PHOSPHATE (PO4) (MG/L)	HARDNESS (CA,MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
MERAMEC RIVER BASIN--Continued											
07014600 - LITTLE COURTOIS CREEK NR. ANTHONIES MILL, MO. (LAT 38 08 10 LONG 091 00 30)											
[1]OCT., 1974											
31...	<.10	<.02	.04	468	144	1450	8.3	20.0	11.2	122	6
JAN., 1975											
08...	1.4	.04	.17	356	166	1080	7.5	9.0	10.4	90	7
APR.											
23...	.10	<.02	.20	218	130	590	8.1	16.0	9.6	97	11
JULY											
30...	<.10	.01	.03	388	106	1600	7.8	28.0	7.2	91	6
07014650 - INDIAN CREEK NEAR SULLIVAN, MO. (LAT 38 11 40 LONG 090 58 50)											
[1]OCT., 1974											
31...	<.10	.02	.02	280	204	700	8.3	19.0	11.2	119	0
JAN., 1975											
08...	.10	<.02	<.02	270	198	620	7.8	8.0	13.1	110	<1
APR.											
23...	<.10	.05	.16	178	150	400	8.2	16.0	9.5	96	<1
JULY											
30...	<.10	.01	.02	258	186	700	8.5	26.0	9.9	120	3
07017280 - FLAT RIVER AT ELVINS, MO. (LAT 37 49 36 LONG 090 32 21)											
[1]OCT., 1974											
29...	<.01	.01	.01	224	202	460	8.1	17.0	10.0	103	1
07017300 - FLAT RIVER AT FLAT RIVER, MO. (LAT 37 52 00 LONG 090 40 30)											
[1]OCT., 1974											
29...	<.01	.01	.02	374	202	780	7.9	16.0	9.1	92	7
ST. FRANCIS RIVER BASIN--Continued											
07033050 - BREWERS CREEK NEAR ROSELLE, MO. (LAT 37 37 00 LONG 090 30 10)											
[1]JAN., 1975											
08...	.10	<.02	.05	30	22	100	6.9	8.0	11.0	92	13
APR.											
23...	<.10	.04	.17	54	46	200	7.3	16.0	8.7	88	<1
07034450 - STOUTS CREEK AT IRONTON, MO. (LAT 37 36 50 LONG 090 37 50)											
[1]OCT., 1974											
29...	<.10	.05	.01	154	126	440	8.3	19.0	12.1	128	9
JAN., 1975											
08...	.20	.04	1.1	70	54	160	7.3	8.0	11.2	94	51
APR.											
23...	<.10	.04	.24	44	30	90	7.3	15.0	9.2	91	15
JULY											
30...	<.10	.03	.05	216	158	600	8.4	25.0	10.7	129	7
07036940 - BIG CREEK AT CHLORIDE, MO. (LAT 37 27 40 LONG 090 41 10)											
[1]OCT., 1974											
29...	<.10	<.02	.03	128	116	280	7.6	19.0	10.3	110	4
JAN., 1975											
08...	.10	<.02	.03	74	58	140	7.4	8.0	11.3	95	1
APR.											
23...	<.10	.02	.10	62	46	125	7.3	14.0	9.5	91	9
JULY											
30...	<.10	.02	.03	158	149	370	7.6	23.0	7.0	80	2

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-CHARGE (CFS)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)
MERAMEC RIVER BASIN--Continued											
07014600 - LITTLE COURTOIS CREEK NR. ANTHONIES MILL, MO. (LAT 38 08 10 LONG 091 00 30)											
[1]OCT., 1974 31...	5.6	0	0	2	50	0	130	20	250	511	7.5
JAN., 1975 08...	17	110	2	4	6	1	110	15	145	175	6.4
APR. 23...	41	90	3	1	10	0	56	8.6	88	53	1.4
JULY 30...	6.2	20	3	8	0	1	130	22	230	210	4.3
07014650 - INDIAN CREEK NEAR SULLIVAN, MO. (LAT 38 11 40 LONG 090 58 50)											
[1]OCT., 1974 31...	22	0	0	3	30	0	32	5.2	124	300	1.8
JAN., 1975 08...	49	0	1	8	10	2	30	3.9	38	49	1.9
APR. 23...	331	10	2	2	0	0	11	2.8	36	16	.60
JULY 30...	19	10	0	8	0	1	32	5.8	90	54	1.0
07017240 - FLAT RIVER AT ELVINS, MO. (LAT 37 49 36 LONG 090 32 21)											
[1]OCT., 1974 29...	.03	10	0	4	110	0	9.1	2.2	28	18	.01
07017300 - FLAT RIVER AT FLAT RIVER, MO. (LAT 37 52 00 LONG 090 40 30)											
[1]OCT., 1974 29...	1.8	130	2	19	310	<1	13	3.8	170	31	.01
ST. FRANCIS RIVER BASIN											
07033850 - BREWERS CREEK NEAR ROSELLE, MO. (LAT 37 37 00 LONG 090 30 10)											
[1]JAN., 1975 08...	5.8	60	3	13	10	5	7.5	2.5	18	10	.30
APR. 23...	11	20	1	2	0	0	11	5.5	33	9.4	.60
07034450 - STOUTS CREEK AT IRONTON, MO. (LAT 37 36 50 LONG 090 37 50)											
[1]OCT., 1974 29...	1.4	20	0	4	30	0	25	10	86	39	1.2
JAN., 1975 08...	116	100	4	23	30	40	6.2	2.6	20	10	.30
APR. 23...	191	50	2	10	0	1	2.7	1.9	25	3.4	.20
JULY 30...	.70	40	2	11	0	1	27	12	110	26	.82
07036940 - BIG CREEK AT CHLORIDE, MO. (LAT 37 27 48 LONG 090 41 10)											
[1]OCT., 1974 29...	5.4	80	1	14	180	16	3.4	1.8	17	28	.20
JAN., 1975 08...	81	30	4	41	30	13	1.7	1.3	10	7.5	.20
APR. 23...	228	40	7	70	30	<10	1.7	1.6	32	1.6	.10
JULY 30...	1.4	50	2	14	20	14	6.0	2.8	11	9.4	<.10

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-CHARGE (CFS)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)
ST. FRANCIS RIVER BASIN--Continued											
07036970 - BIG CREEK AT ANNAPOLIS, MO. (LAT 37 21 20 LONG 090 41 20)											
[1]OCT., 1974 29...	30	10	0	2	40	0	3.1	1.1	13	23	.10
JAN., 1975 08...	109	10	1	4	30	2	1.9	.9	7.0	7.0	.20
APR. 23...	134	10	3	2	0	0	2.2	1.3	9.0	2.3	.10
JULY 30...	10	20	0	11	10	1	5.7	2.3	6.0	4.2	<.10
WHITE RIVER BASIN											
07061125 - WEST FORK BLACK RIVER NR GREELEY MO (LAT 37 30 25 LONG 091 09 40)											
[1]OCT., 1974 30...	15	0	0	2	30	0	1.6	.7	6.0	11	.20
JAN., 1975 07...	28	20	1	3	0	1	1.3	1.1	7.0	6.0	.40
APR. 22...	24	0	1	2	0	0	1.7	1.0	3.0	3.1	.10
JULY 29...	9.1	0	1	13	0	1	1.8	1.0	2.0	2.1	<.10
07061130 - BILLS CREEK NR GREELEY MO (LAT 37 30 04 LONG 091 08 26)											
[1]OCT., 1974 30...	--	0	0	1	30	0	20	2.2	29	37	.30
JAN., 1975 07...	9.7	40	1	3	0	1	16	1.4	18	17	.30
APR. 22...	10	20	2	3	10	0	15	2.4	30	16	.30
JULY 29...	4.6	0	0	6	0	1	18	2.4	20	15	.10
07061135 - W. F. BLACK RIVER AT WEST FORK, MO. (LAT 37 29 32 LONG 091 06 29)											
[1]OCT., 1974 30...	24	0	0	3	30	0	5.2	1.1	9.0	2.8	.20
JAN., 1975 07...	53	20	1	2	0	0	3.6	1.1	6.0	9.0	.30
APR. 22...	43	10	1	2	0	0	4.5	1.4	9.0	6.2	.10
JULY 29...	21	0	1	6	0	1	6.1	1.4	5.0	6.2	<.10
07061140 - BEE FORK AB HWY T NR. BUNKER, MO. (LAT 37 26 40 LONG 091 06 00)											
[1]OCT., 1974 30...	2.5	0	0	2	30	0	1.5	.7	8.0	22	.20
JAN., 1975 07...	12	10	1	3	20	1	.8	.3	6.0	6.0	.30
APR. 22...	3.6	10	1	1	0	0	1.3	.9	5.0	1.6	.10
JULY 29...	.49	0	1	9	0	1	1.8	1.1	2.0	3.1	<.10
07061145 - BEE FORK BL HWY T NR. BUNKER, MO. (LAT 37 26 30 LONG 091 05 30)											
[1]OCT., 1974 30...	11	260	0	4	40	0	43	4.5	190	66	.20
JAN., 1975 07...	28	210	1	3	6	0	16	1.5	35	17	.30
APR. 22...	13	150	1	2	0	0	23	2.5	32	17	.10
JULY 29...	3.5	0	1	10	0	1	43	3.9	110	31	.11

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

ST. FRANCIS RIVER BASIN--Continued

07036970 - BIG CREEK AT ANNAPOLIS, MO. (LAT 37 21 20 LONG 090 41 20)

DATE	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	PHOSPHATE (PO4) (MG/L)	HARDNESS (CA,MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
[1]OCT., 1974 29...	.10	.02	.02	140	132	280	--	17.0	9.6	99	0
JAN., 1975 08...	.10	<.02	<.02	96	92	170	7.5	8.0	11.0	92	<1
APR. 23...	<.10	<.02	.21	100	90	200	7.8	14.0	9.2	88	3
JULY 30...	<.10	.02	.03	152	150	330	7.5	22.0	6.6	75	0

WHITE RIVER BASIN--Continued

07061125 - WEST FORK BLACK RIVER NR GREELEY MO (LAT 37 30 25 LONG 091 09 40)

DATE	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	PHOSPHATE (PO4) (MG/L)	HARDNESS (CA,MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
[1]OCT., 1974 30...	<.10	<.02	.03	176	186	350	8.0	17.0	1.0	100	4
JAN., 1975 07...	.10	<.02	<.02	156	148	--	7.7	5.0	12.9	100	<1
APR. 22...	<.10	<.02	.14	154	152	300	8.2	14.0	10.9	105	<1
JULY 29...	<.10	.01	.02	176	190	340	8.1	24.0	9.1	107	0

07061130 - BILLS CREEK NR GREELEY MO (LAT 37 30 04 LONG 091 08 26)

DATE	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	PHOSPHATE (PO4) (MG/L)	HARDNESS (CA,MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
[1]OCT., 1974 30...	<.10	.04	.04	208	196	480	5.3	17.0	9.3	100	3
JAN., 1975 07...	.10	<.02	<.02	202	184	420	7.7	5.0	12.6	98	<1
APR. 22...	<.10	<.02	.08	192	170	420	7.9	13.0	10.0	94	<1
JULY 29...	<.10	.01	.02	186	202	460	8.1	23.0	7.9	91	2

07061135 - W. F. BLACK RIVER AT WEST FORK, MO. (LAT 37 29 32 LONG 091 06 29)

DATE	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	PHOSPHATE (PO4) (MG/L)	HARDNESS (CA,MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
[1]OCT., 1974 30...	<.10	<.02	.02	194	180	370	8.0	17.0	9.7	98	4
JAN., 1975 07...	.10	<.02	<.02	164	152	300	7.4	5.0	13.0	102	<0
APR. 22...	<.10	<.02	.07	158	150	330	7.9	13.0	10.3	97	<1
JULY 29...	<.10	.01	.02	184	182	360	8.0	23.0	8.2	94	5

07061140 - BEE FORK AB HWY T NR. BUNKER, MO. (LAT 37 26 40 LONG 091 06 00)

DATE	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	PHOSPHATE (PO4) (MG/L)	HARDNESS (CA,MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
[1]OCT., 1974 30...	<.10	.02	.03	102	100	210	7.6	15.0	9.5	106	1
JAN., 1975 07...	.10	<.02	<.02	52	48	98	7.5	5.0	12.5	98	<1
APR. 22...	<.10	<.02	.11	74	62	140	7.4	18.0	9.9	103	<1
JULY 29...	<.10	.01	.02	132	142	270	7.9	28.0	8.2	104	3

07061145 - BEE FORK BL HWY T NR. BUNKER, MO. (LAT 37 26 30 LONG 091 05 30)

DATE	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	PHOSPHATE (PO4) (MG/L)	HARDNESS (CA,MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
[1]OCT., 1974 30...	<.10	<.02	.02	290	140	750	7.9	17.0	9.5	102	5
JAN., 1975 07...	.10	<.02	<.02	126	98	280	7.6	6.0	12.5	100	1
APR. 22...	<.10	<.02	.09	152	120	330	7.9	18.0	9.7	101	<1
JULY 29...	<.10	.01	.03	186	166	600	7.9	28.0	9.0	114	2

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-CHARGE (CFS)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)
WHITE RIVER BASIN--Continued											
07061155 - STROTHER CREEK NEAR OATES, MO. (LAT 37 35 20 LONG 091 03 20)											
[1]OCT., 1974											
30...	12	140	1	2	40	0	23	5.2	180	50	1.9
JAN., 1975											
07...	14	200	7	4	150	1	19	3.8	135	28	1.6
APR.											
22...	14	180	4	4	10	0	14	3.7	140	17	.80
JULY											
29...	13	69	1	10	0	1	18	4.6	140	19	<.10
07061160 - NEALS CREEK NR. BUICK, MO. (LAT 37 38 30 LONG 091 02 30)											
[1]OCT., 1974											
30...	5.2	10	0	3	80	0	13	3.9	150	36	1.5
JAN., 1975											
06...	5.5	10	1	3	10	1	11	2.6	100	22	1.3
APR.											
21...	6.3	0	1	2	0	0	6.8	2.3	60	11	.40
JULY											
28...	3.7	10	1	13	0	1	13	3.9	165	22	.24
07061165 - BRUSHY CREEK AT OATES, MO. (LAT 37 33 42 LONG 091 03 20)											
[1]OCT., 1974											
30...	--	0	0	3	50	0	1.4	.8	8.0	15	.10
JAN., 1975											
07...	6.3	20	1	3	0	0	1.3	.9	8.0	7.5	.10
APR.											
22...	5.5	0	1	3	0	0	1.1	.9	3.0	1.6	.10
JULY											
29...	.46	0	0	10	0	1	1.6	.9	2.0	5.2	[illegible]
07061600 - BLACK RIVER BELOW ANAPOLIS, MO. (LAT 37 19 30 LONG 090 45 53)											
[1]OCT., 1974											
29...	218	0	0	2	30	0	3.8	.8	15	28	.20
JAN., 1975											
09...	520	10	4	13	180	1	3.8	1.1	11	10	.30
APR.											
23...	467	0	1	2	0	0	2.3	1.2	9.0	3.1	.10
JULY											
30...	200	0	0	10	0	1	3.6	1.3	5.0	4.1	<.10
07061810 - LOGAN CR. AB. SWEETWATER CR. NR. CORRIDON, MO. (LAT 37 22 15 LONG 091 06 48)											
[1]OCT., 1974											
30...	.57	20	0	2	20	0	1.2	.6	7.0	32	.20
JAN., 1975											
07...	8.4	20	1	4	10	1	.6	1.0	4.0	10	.50
APR.											
22...	2.0	10	1	2	0	0	.8	.8	5.0	2.3	.10
JULY											
29...	.13	90	1	10	6	1	1.8	.8	4.0	3.1	<.10
07061840 - LOGAN CR. BL. SWEETWATER CR. NR. CORRIDON, MO. (LAT 37 18 50 LONG 091 07 40)											
[1]OCT., 1974											
30...	7.1	0	0	3	30	0	11	1.9	44	31	.70
JAN., 1975											
07...	30	20	2	12	0	0	3.4	1.1	11	10	.50
APR.											
22...	19	160	6	5	0	0	4.1	2.0	24	11	.20
JULY											
29...	3.0	20	2	9	0	1	18	3.3	82	27	.36

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	PHOSPHATE (PO4) (MG/L)	HARDNESS (CA,MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)
WHITE RIVER BASIN--Continued											
07061155 - STROTHER CREEK NEAR OATES, MO. (LAT 37 35 20 LONG 091 03 20)											
[1]OCT., 1974											
30...	<.10	.04	.05	308	136	700	8.3	18.0	9.3	103	5
JAN., 1975											
07...	.10	<.02	.09	280	150	600	7.8	4.0	13.4	102	6
APR.											
22...	.10	.03	.15	230	130	500	8.3	15.0	10.2	102	5
JULY											
29...	<.10	.02	.04	242	162	560	8.0	27.0	7.4	92	9
07061160 - NEALS CREEK NR. BUICK, MO. (LAT 37 38 30 LONG 091 02 30)											
[1]OCT., 1974											
30...	.10	<.02	.03	348	196	720	8.3	18.0	9.9	79	4
JAN., 1975											
06...	.90	<.02	<.02	306	178	610	7.9	5.0	12.1	95	4
APR.											
21...	<.10	<.02	.09	264	180	525	--	19.0	9.7	103	<1
JULY											
28...	<.10	.01	.03	328	198	700	8.1	26.0	8.8	107	10
07061165 - BRUSHY CREEK AT OATES, MO. (LAT 37 33 42 LONG 091 03 20)											
[1]OCT., 1974											
30...	.10	.02	.02	150	152	300	8.0	17.0	9.7	98	0
JAN., 1975											
07...	.10	<.02	<.02	104	100	200	7.5	4.0	13.3	102	<1
APR.											
22...	<.10	<.02	.11	118	108	230	7.2	11.0	10.7	97	<1
JULY											
29...	.10	.02	.02	166	182	340	8.0	22.0	8.4	95	10
07061600 - BLACK RIVER BELOW ANAPOLIS, MO. (LAT 37 19 30 LONG 090 45 53)											
[1]OCT., 1974											
29...	<.10	.02	.05	146	134	300	8.1	17.0	10.5	106	0
JAN., 1975											
08...	.10	<.02	<.02	122	112	260	7.6	8.0	11.2	94	<1
APR.											
23...	<.10	<.02	.15	114	100	215	7.7	15.0	9.0	89	<1
JULY											
30...	<.10	.01	.04	142	146	320	7.4	23.0	7.2	83	3
07061810 - LOGAN CR. AB. SWEETWATER CR. NR. CORRIDON, MO. (LAT 37 22 15 LONG 091 06 48)											
[1]OCT., 1974											
30...	<.10	<.02	.03	42	40	98	7.9	15.0	8.1	123	6
JAN., 1975											
07...	.10	<.02	<.02	14	10	38	7.0	6.0	11.8	95	<1
APR.											
22...	<.10	<.02	.10	28	22	55	7.0	15.0	10.4	103	5
JULY											
29...	<.10	.01	.02	100	102	200	7.7	27.0	7.6	95	3
07061840 - LOGAN CR. BL. SWEETWATER CR. NR. CORRIDON, MO. (LAT 37 18 50 LONG 091 07 48)											
[1]OCT., 1974											
30...	<.10	.03	.03	134	100	330	7.5	15.0	8.7	116	1
JAN., 1975											
07...	.10	<.02	<.02	60	46	140	6.7	6.0	12.0	96	<1
APR.											
22...	.10	<.02	.06	94	50	210	7.5	17.0	9.5	98	1
JULY											
29...	<.10	.01	.02	156	114	420	7.5	27.0	8.3	104	0

LOWER MISSISSIPPI RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
WHITE RIVER BASIN--Continued												
07064440 - CURRENT RIVER BELOW MONTAUK STATE PARK (LAT 37 27 51 LONG 091 29 41)												
[1]OCT.. 1974												
21...	109	9.5	390	90	31	15	2.4	1.4	172	0	3.9	.1
JAN.. 1975												
22...	153	7.8	40	20	28	13	1.5	.9	136	0	4.3	1.9
APR.												
15...	165	6.7	20	10	25	14	1.9	1.1	132	0	4.5	2.2
07066110 - JACKS FORK ABOVE TWO RIVERS (LAT 37 10 53 LONG 091 17 36)												
[1]OCT.. 1974												
22...	233	8.1	20	0	40	23	1.6	.7	226	0	3.2	2.3
JAN.. 1975												
21...	490	6.5	20	10	28	16	1.1	.8	158	0	3.2	.9
APR.												
15...	530	5.3	20	10	31	17	1.2	1.1	172	0	3.4	1.7
07066510 - CURRENT RIVER ABOVE POWDER MILL (LAT 37 10 32 LONG 091 12 48)												
[1]OCT.. 1974												
22...	850	7.8	20	0	38	22	1.7	.7	216	0	3.4	2.3
JAN.. 1975												
21...	1870	6.9	20	0	27	15	1.0	1.1	156	0	3.4	1.1
APR.												
15...	1880	5.2	10	10	29	17	1.2	1.0	172	0	4.8	2.3
07067800 - CURRENT RIVER BELOW HAWES CAMPGROUND (LAT 36 49 04 LONG 090 58 48)												
[1]OCT.. 1974												
23...	1500	7.9	10	0	38	22	1.7	.7	220	0	5.8	2.3
JAN.. 1975												
21...	2970	7.0	20	20	27	15	1.4	.9	152	0	4.4	1.1
APR.												
15...	3330	5.4	20	10	29	16	1.3	1.0	166	0	4.1	2.3

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

WHITE RIVER BASIN--Continued

07064440 - CURRENT RIVER BELOW MONTAUK STATE PARK (LAT 37 27 01 LONG 091 29 41)

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	METHY-LENE BLUE ACTIVE SUR-STANCE (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
[1]OCT., 1974 21...	.0	.80	.04	.00	.13	.13	.0	151	.21	44.6	140	0
JAN., 1975 22...	.0	.60	.05	.17	.03	.04	--	126	.17	52.1	120	12
APR. 15...	.0	.60	.02	.20	.01	.01	.0	125	.17	55.7	120	12

07066110 - JACKS FORK ABOVE TWO RIVERS (LAT 37 10 53 LONG 091 17 36)

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	METHY-LENE BLUE ACTIVE SUR-STANCE (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
[1]OCT., 1974 22...	.0	.34	.01	.00	.01	.02	.0	237	.32	149	190	9
JAN., 1975 21...	.0	.29	.03	.16	.01	.01	.0	141	.19	187	140	6
APR. 15...	.0	.31	.00	.21	.01	.00	.0	143	.19	205	150	6

07066510 - CURRENT RIVER ABOVE POWDER MILL (LAT 37 10 32 LONG 091 12 48)

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	METHY-LENE BLUE ACTIVE SUR-STANCE (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
[1]OCT., 1974 22...	.0	.00	.00	.01	.01	.02	.0	222	.30	509	190	8
JAN., 1975 21...	.0	.01	.01	.14	.02	.01	.3	135	.18	682	130	1
APR. 15...	.0	.31	.00	.26	.01	.00	.0	140	.19	711	140	1

07067500 - CURRENT RIVER BELOW HAWES CAMPGROUND (LAT 36 49 08 LONG 090 56 48)

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	METHY-LENE BLUE ACTIVE SUR-STANCE (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
[1]OCT., 1974 23...	.0	.00	.01	.07	.01	.01	.0	221	.30	895	190	5
JAN., 1975 21...	.0	.45	.01	.19	.02	.02	.1	141	.19	1130	130	5
APR. 15...	.0	.31	.00	.11	.01	.01	.0	139	.19	1250	140	7

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
WHITE RIVER BASIN--Continued											
07064440 - CURRENT RIVER BELOW MONTAUK STATE PARK (LAT 37 27 11 LONG 091 29 41)											
[1]OCT., 1974											
21...	141	292	7.3	0	1	12.5	2	9.4	88	30	37
JAN., 1975											
22...	112	227	7.7	0	3	10.5	17	10.3	92	28	140
APR.											
15...	108	237	7.9	3	2	11.5	8	10.5	96	30	22
07066110 - JACKS FORK ABOVE TWO RIVERS (LAT 37 10 53 LONG 091 17 36)											
[1]OCT., 1974											
22...	185	346	8.0	0	1	12.5	2	9.6	90	12	31
JAN., 1975											
21...	130	265	8.0	5	4	7.5	0	11.2	93	4	20
APR.											
15...	141	276	8.1	2	1	11.5	7	10.8	99	30	22
07066510 - CURRENT RIVER ABOVE POWDER MILL (LAT 37 10 32 LONG 091 12 48)											
[1]OCT., 1974											
22...	177	341	8.1	3	1	12.0	0	10.2	94	2	11
JAN., 1975											
21...	128	252	8.0	5	8	7.5	12	11.4	95	2	22
APR.											
15...	141	292	8.3	3	2	12.0	6	10.2	94	<1	12
07067400 - CURRENT RIVER BELOW HAWES CAMPGROUND (LAT 36 49 04 LONG 090 56 48)											
[1]OCT., 1974											
23...	180	339	7.9	3	1	13.0	0	9.7	92	8	22
JAN., 1975											
21...	125	253	7.9	0	3	7.5	9	11.2	93	2	42
APR.											
15...	136	269	8.3	2	1	13.0	3	10.0	94	1	6

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
WHITE RIVER BASIN--Continued											
07064440 - CURRENT RIVER BELOW MONTAUK STATE PARK (LAT 37 27 [illegible] LONG 091 29 41)											
[1]OCT., 1974											
21...	0	<100	<10	0	<50	<10	<100	.0	<50	<10	60
JAN., 1975											
22...	0	200	<10	0	50	30	<100	.0	<50	20	10
APR.											
15...	1	100	10	0	<50	<10	<100	.2	50	<10	10
07066110 - JACKS FORK ABOVE TWO RIVERS (LAT 37 10 53 LONG 091 17 36)											
[1]OCT., 1974											
22...	1	<100	<10	0	<50	<10	<100	.0	<50	<10	240
JAN., 1975											
21...	0	<100	<10	0	<50	10	<100	.0	<50	10	30
APR.											
15...	1	<100	10	0	<50	10	<100	.2	50	<10	10
07066510 - CURRENT RIVER ABOVE POWDER MILL (LAT 37 10 32 LONG 091 12 48)											
[1]OCT., 1974											
22...	1	<100	<10	0	<50	<10	<100	.0	<50	<10	50
JAN., 1975											
21...	0	<100	<10	0	100	<10	<100	.0	50	10	30
APR.											
15...	1	100	<10	0	<50	10	<100	--	50	200	10
07067800 - CURRENT RIVER BELOW HAWES CAMPGROUND (LAT 36 49 08 LONG 090 56 48)											
[1]OCT., 1974											
23...	1	<100	<10	0	<50	<10	<100	.0	<50	<10	70
JAN., 1975											
21...	0	<100	<10	0	<50	30	<100	.0	<50	10	30
APR.											
15...	1	200	10	0	<50	<10	<100	.2	50	10	10

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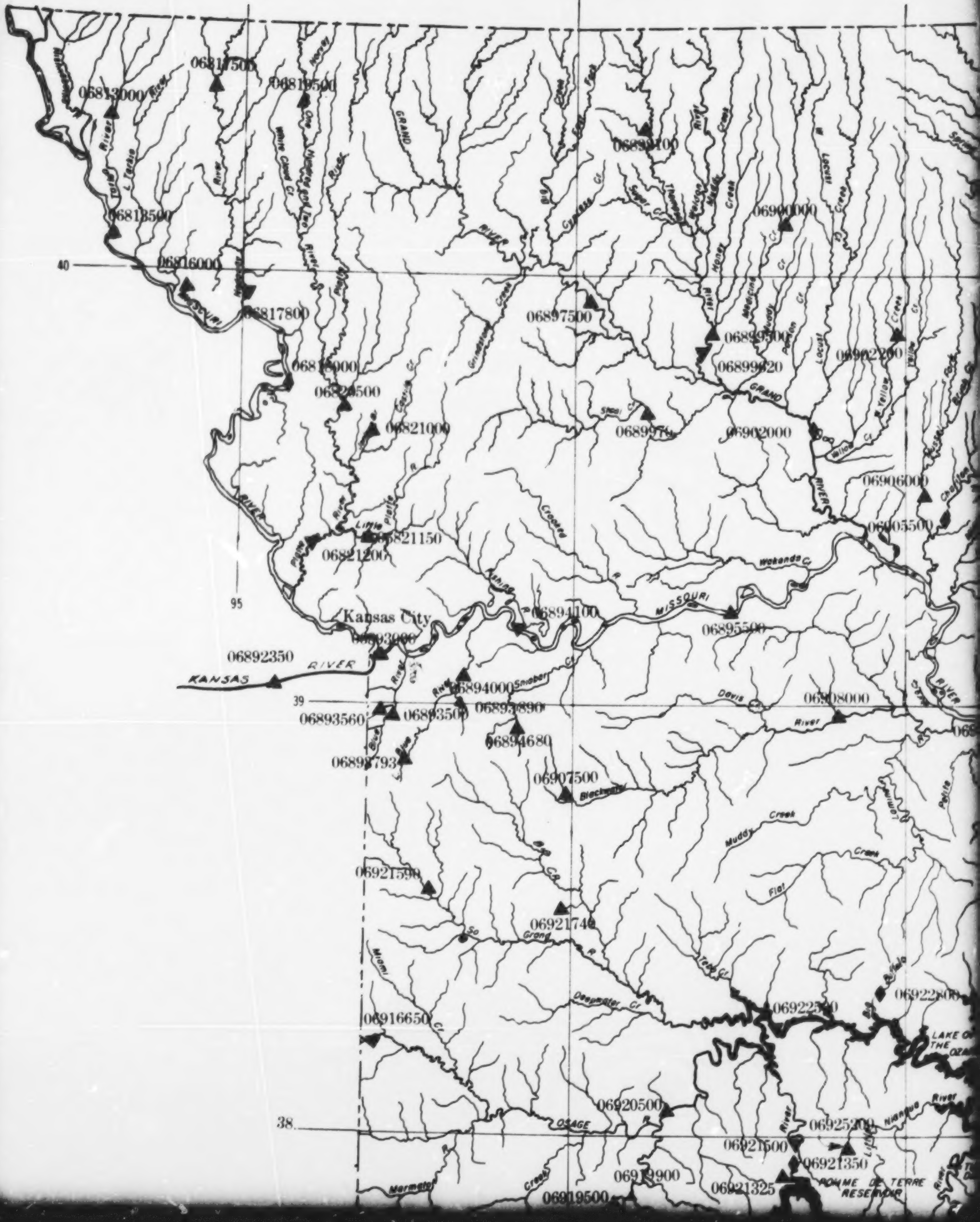
[1] Minor elements determinations by U.S. Geological Survey, remainder of analyses by Missouri Clean Water Commission.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LAKE OF THE OZARKS
OSAGE
Wakanda Cr
Davis Cr
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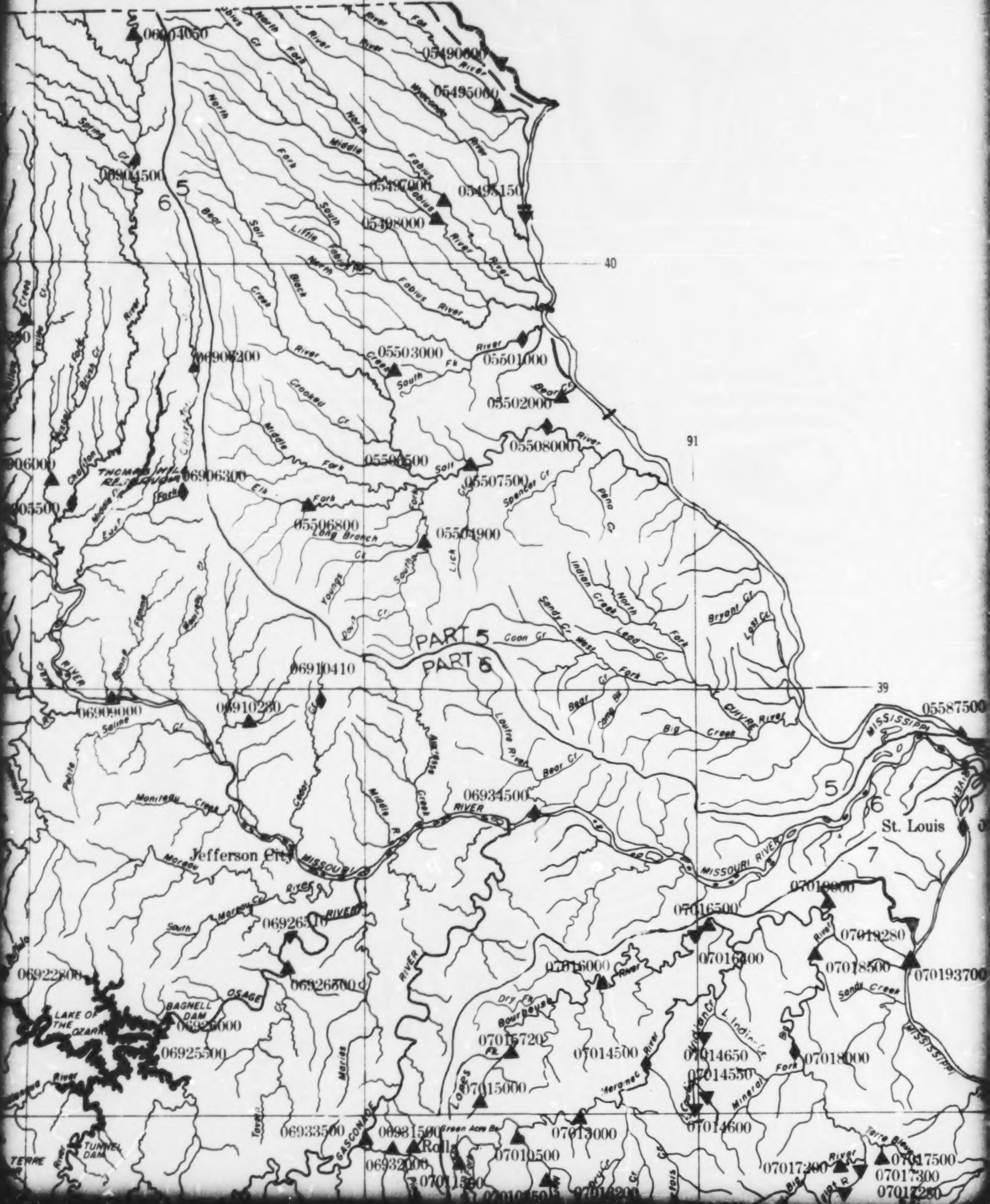
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Long Branch
PART 5
PART 6
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St. Louis
Jefferson City
MISSOURI RIVER
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Rolla
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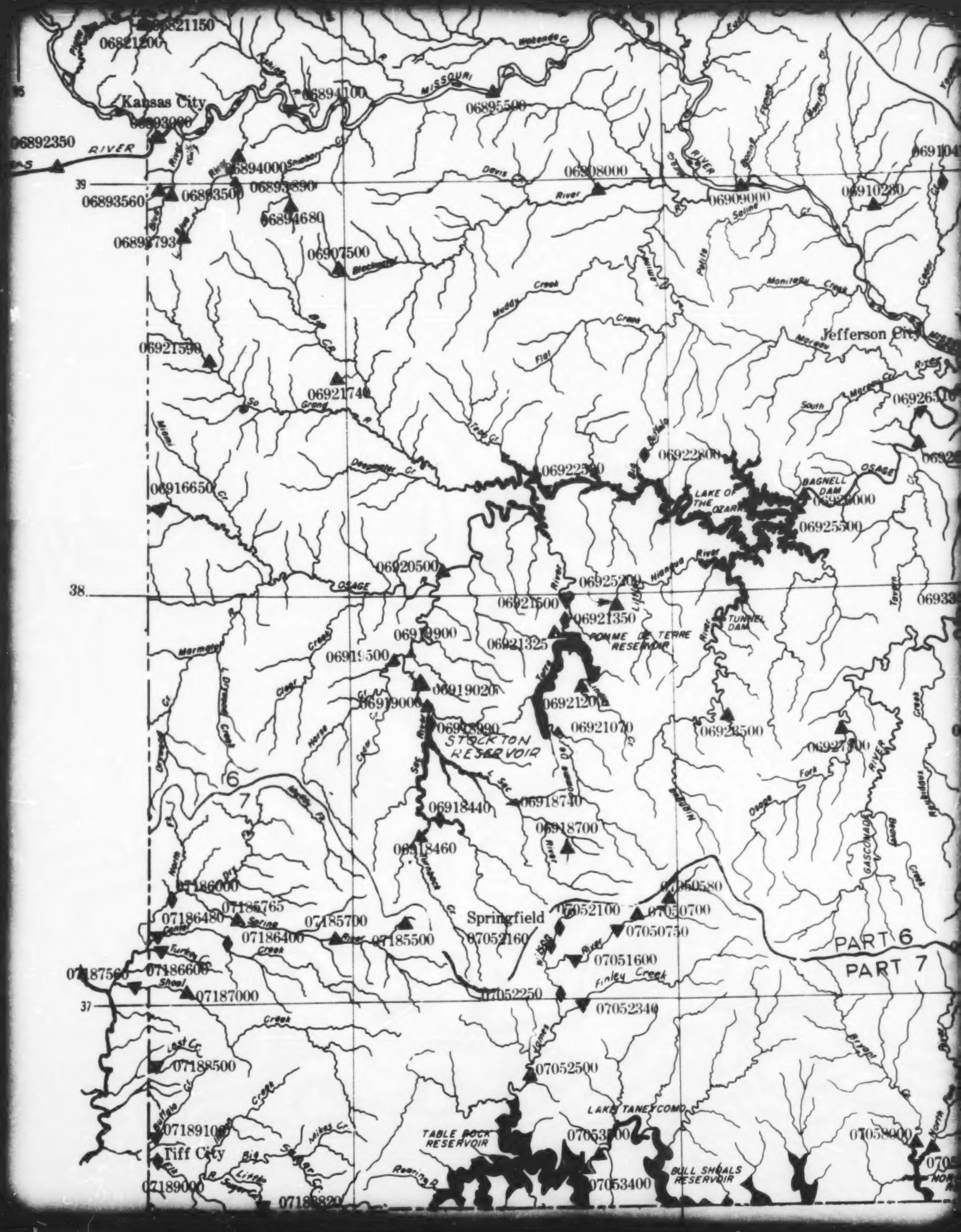
TUNNEL DAM
North Fabius River
Middle Fabius River
South Fabius River
Wyaconda River
Fox River
North Fork Salt River
Middle Fork
South Fork
Elk Fork
Salt River
Crooked Cr
Black Cr
Bear Cr
Spencer Cr
Peno Cr
Lick Cr
Youngs Cr
Davis Cr
Coon Cr
Sandy Cr
Indian Creek
North Fork
West Fork
Lead Cr
Bryant Cr
Lost Cr
Cuivre River
Big Creek
Camp Br
Loutre River
Auxvasse Creek
Middle R
Cedar Cr
Moniteau Creek
Saline Cr
Petite Saline
Moreau River
South Moreau Cr
OSAGE
Maries
GASCONADE
Bourbeuse
Dry Fk
Meramec River
Big River
Mineral Fork
Sandy Creek
Terre Bleue
Chariton River
Spring Cr
Grand River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River
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Marmaton
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STOCKTON RESERVOIR
Clear Creek
Horse Cr.
Cedar Cr.
Sac River
Dry Wood Creek
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Osage Fork
GASCONADE RIVER
6
7
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River
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Turkey Cr.
Shoal
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Finley Creek
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37
Creek
Lost Cr.
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James
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Buffalo Cr.
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Tiff City
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Big Sugar Cr.
Little Sugar Cr.
Elk R.
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BULL SHOALS RESERVOIR
Roaring R.
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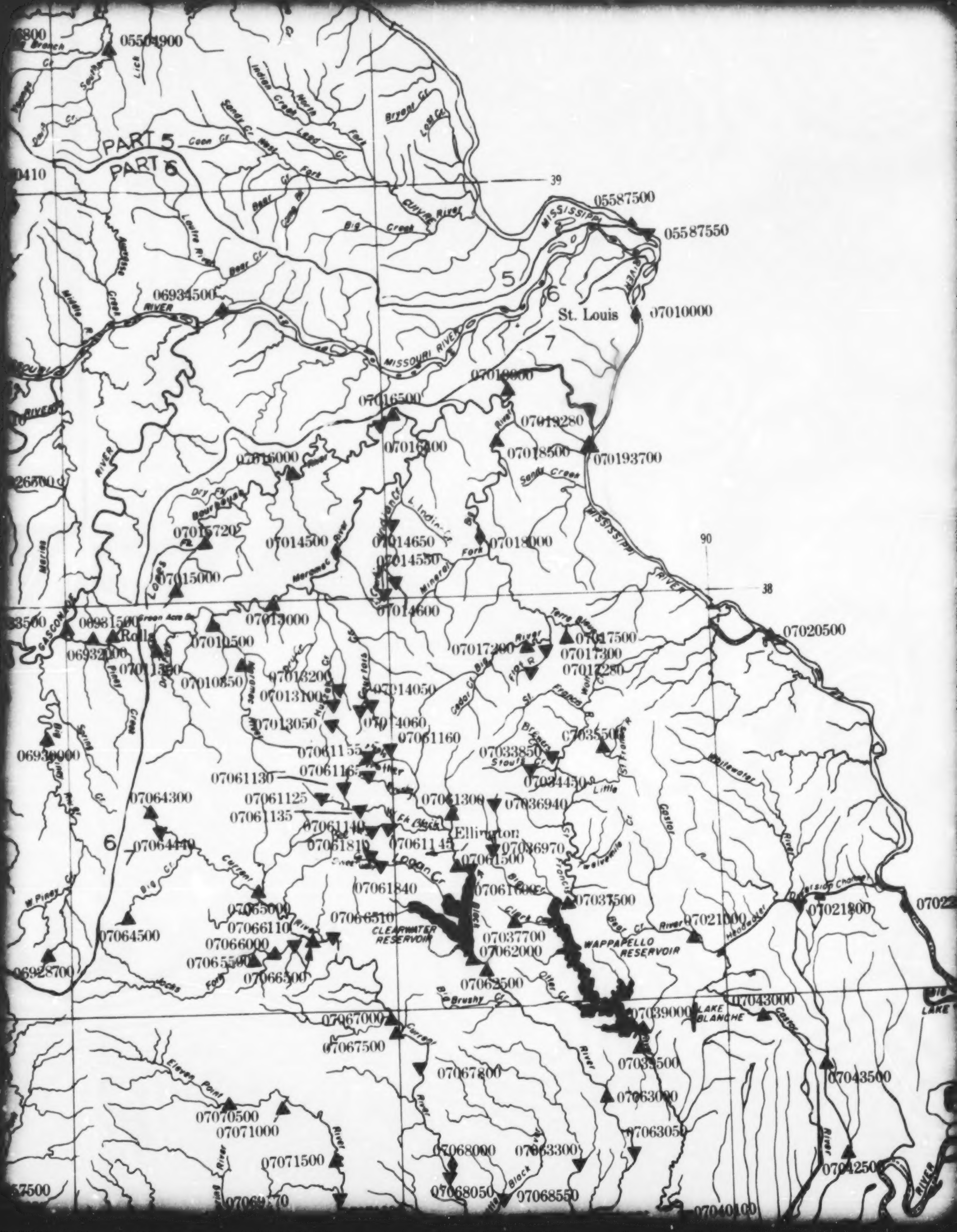
PART 7
North Fork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Bryant Cr
Lead Cr
Sandy Cr
Cuivre River
Big Creek
Bear Cr
Loutre River
Auxvasse Creek
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6
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RIVER
MISSOURI RIVER
St. Louis
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Ellington
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6
7
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Current
Logan Cr
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Twelvemile Cr
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Castor
Whitewater River
Diversion Channel
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WAPPAPELLO RESERVOIR
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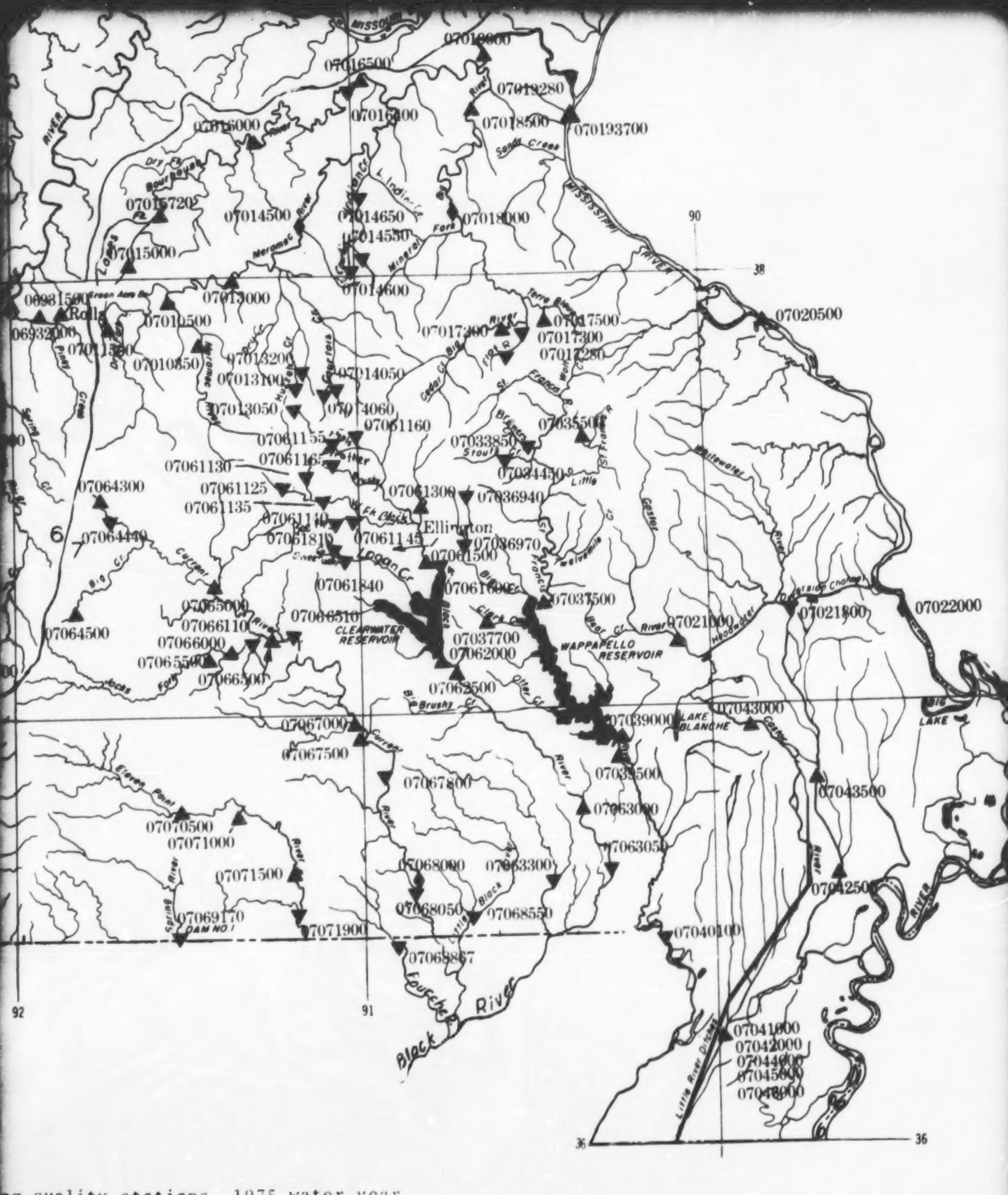
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Mineral Fork
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Green Acre Br
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Terre Bleue
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Rolla
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07014050
Cedar Cr
St Francis
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Stout Cr
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Little
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Ellington
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Logan Cr
Twelvemile Cr
Castor
Whitewater
Big Cr
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Clark Cr
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Diversion Channel
07021800
07066000
07037700
Bear Cr
River
Headwater
07065500
07062000
WAPPAPELLO RESERVOIR
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Jacks Fork
07062500
Otter Cr
Big Brushy Cr
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91
Black River
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07042000
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07045000
07046000
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